

July 3, 2008

Utah Division of Oil, Gas and Mining P.O. Box 145801 1594 West North Temple, Suite 1210 Salt Lake City, Utah 84114-5801

# 7-26-47 DLB Tribal Surface/Tribal Minerals SWNE, Section 26-T4S-R7W Duchesne County, Utah

Diana Mason, Environmental Scientist I:

Haddock

Enclosed please find a copy of Bill Barrett Corporation's (BBC) application for permit to drill the above captioned well. Montgomery Archeological Consultants conducted a Class III archeological survey for this location the week of June 16, 2008. Once BBC receives a copy of this report it will be forwarded. Also, a copy of EIS Environmental and Engineering Consulting survey for this location has been sent under a previous cover for the #7-19-46 DLB. This report does include the #7-26-47 DLB location. The report, "Threatened, Endangered, Candidate, and Sensitive Species Survey" dated June 17, and 19, 2008 found no threatened or endangered species.

Please contact me at (303) 312-8546 if you need anything additional or have any questions.

Sincerely,

Reed Haddock

Permit Analyst

RECEIVED
JUL 0 7 2008

DIV. OF OIL, GAS & MINING

**Enclosures** 

1099 18TH STREET
SUITE 2300
DENVER, CO 80202
P 303.293.9100

303.291.0420

Form 3160 -3 (April 2004) UNITED STATES			OMB No	APPROVED 5. 1004-0137 March 31, 2007
DEPARTMENT OF THE I	5. Lease Serial No. BIA 14-20-H62-5500			
BUREAU OF LAND MAN.			6. If Indian, Allotee	or Tribe Name
APPLICATION FOR PERMIT TO	DRILL OR REENTER		UTE INDIAN	TRIBE
la. Type of work:  DRILL REENTE	R		7. If Unit or CA Agre	ement, Name and No.
lb. Type of Well: Oil Well Gas Well Other	Single Zone   Multip	ole Zone	8. Lease Name and \ # 7-26-47 DLB	
2. Name of Operator BILL BARRETT CORPORATION			9. API Well No. Pending	13-3 40Z4
3a. Address 1099 18th Street, Suite 2300 Denver CO 80202	3b. Phone No. (include area code) (303) 312-8546		10. Field and Pool, or l	Exploratory DildCU
4. Location of Well (Report location clearly and in accordance with any At surface SWNE, 2472' FNL, 1354' FEL At proposed prod. zone SWNE, 2472' FNL, 1354' FEL	v State requirements.*)		11. Sec., T. R. M. or B  Section 26-T48	lk.and Survey or Area S-R7W U.S.B.&M.
14. Distance in miles and direction from nearest town or post office*  Approximately 19.9 miles southwest of Duchesne, Utah			12. County or Parish  Duchesne	13. State UT
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  1354'	16. No. of acres in lease  N/A	17. Spacin	g Unit dedicated to this v	well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  2,500' Applied for loc.	19. Proposed Depth 8497'		BIA Bond No. on file  nwide Bond #WYB00	00040
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7438' ungraded ground	22 Approximate date work will star 09/15/2008	rt*	23. Estimated duration 45 days	n .
	24. Attachments			
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be at	ttached to th	is form:	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>	Item 20 above).  Lands, the 5. Operator certific	ation	ns unless covered by an ormation and/or plans as	existing bond on file (see
25. Signature DAHAddoe K	Name (Printed/Typed) Reed Haddock			Date 07/03/2008
Title Permit Analyst				

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.

Name (Printed/Typed)

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on page 2)

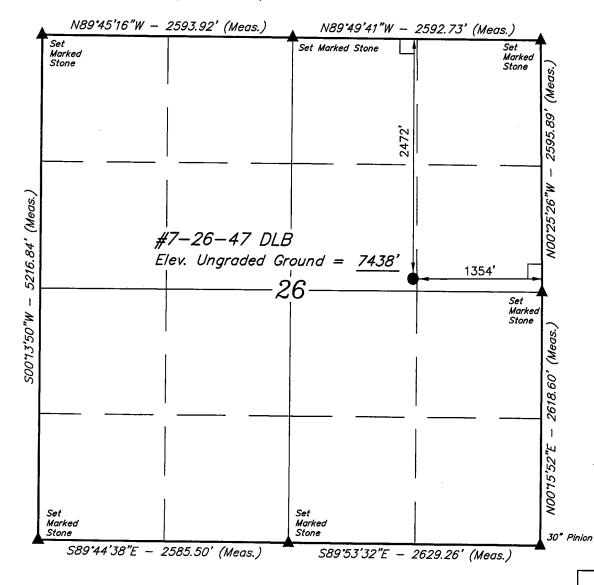
530897X 44391964 40.104389 -110.637497

Federal Approval of this Action is Necessary

Offic BRADLEY G. HILL ENVIRONMENTAL MANAGER

> **RECEIVED** JUL 07 2008

## T4S, R7W, U.S.B.&M.



#### BILL BARRETT CORPORATION

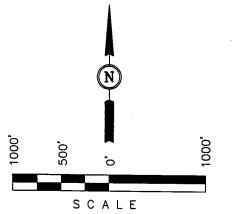
Well location, #7-26-47 DLB, located as shown in the SW 1/4 NE 1/4 of Section 26, T4S, R7W, U.S.B.&M., Duchesne County, Utah.

#### BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED ON CAP AS BEING 6097 FEET.

#### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



#### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS THE WAY SUPERVISION AND THAT THE SAME THE RECORDECT TO THE SAME THE SAME

BEST OF MY KNOWLEDGE AND



#### LEGEND:

= 90° SYMBOL

= PROPOSED WELL HEAD.

= SECTION CORNERS LOCATED.

(NAD 83)

LATITUDE =  $40^{\circ}06'15.97"$  (40.104436)

LONGITUDE = 110'38'17.68" (110.638244)

(NAD 27)

LATITUDE =  $40^{\circ}06'16.12"$  (40.104478)

LONGITUDE = 110'38'15.12" (110.637533)

#### UINTAH ENGINEERING 85 SOUTH 200 EAST VERNAL, UTAH 84078 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: DATE DRAWN: 05-05-08 06-18-0		
S.H. T.P. C.H.	REFERENCES G.L.O. PLAT		
WEATHER WARM	FILE BILL BARRETT CORPORATION		

#### **HAZARDOUS MATERIAL DECLARATION**

WELL NO. #7-26-47 DLB - BIA CONTRACT NO. 14-20-H62-5500

Bill Barrett Corporation guarantees that during the drilling and completion of the above referenced well, we will not use, produce, or store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Super Amendments and Reauthorization Act (SARA) of 1986.

Bill Barrett Corporation guarantees that during the drilling and completion of the above referenced well, we will use, produce, store, transport, or dispose less than the threshold planning quantity (TPQ) of any extremely hazardous substances as defined in 40 CFR 355.

#### **DRILLING PLAN**

#### BILL BARRETT CORPORATION # 7-26-47 DLB

SHL: SWNE, 2472' FNL & 1354' FEL, Section 26-T4S-R7W BHL: SWNE, 2472' FNL & 1354' FEL, Section 26-T4S-R7W Surface Owner: Tribal (Ute Indian Tribe)

Duchesne County, Utah

# 1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals

<u>Formation</u>	<u>Depth</u>
TGR3	3,566'
Douglas Creek	4,401'
Black Shale	5,190'
Castle Peak	5,425'
Wasatch	6,008' *
North Horn	8,074' *
TD	8,497'

#### \*PROSPECTIVE PAY

The Wasatch and the North Horn are primary objectives for oil/gas.

#### 3. BOP and Pressure Containment Data

Depth Intervals	BOP Equipment						
0 – 850'	No pressure control required						
850' – TD	11" 3000# Ram Type BOP						
	11" 3000# Annular BOP						
- Drilling spool to a	accommodate choke and kill lines;						
- Ancillary and cho	ke manifold to be rated @ 3000 psi;						
- Ancillary equipme	- Ancillary equipment and choke manifold rated at 3,000#. All BOP and BOPE tests will be in						
accordance with the requirements of onshore Order No. 2;							
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in							
advance of all BOP pressure tests.							
- BOP hand wheels	may be underneath the sub-structure of the rig if the drilling rig used is set up						
To operate most e	To operate most efficiently in this manner.						

#### 4. <u>Casing Program</u>

	<u>Hole</u> Size	SETTING (FROM)	G DEPTH (TO)	<u>Casing</u> Size	<u>Casing</u> Weight	<u>Casing</u> <u>Grade</u>	Thread	<u>Condition</u>
Ì	12 ¼"	surface	850'	9 5/8"	36#	J or K 55	ST&C	New
	8 3/4"	surface	8,497'	5 1/2"	17#	N or I 80	LT&C	New

#### 5. Cementing Program

9 5/8" Surface Casing	Approximately 230 sx Halliburton Light Premium with additives mixed at 12.7 ppg (yield = 1.82 ft <sup>3</sup> /sx) circulated to surface with 100% excess
5 ½" Production Casing	Approximately 370 sx Halliburton Hi-Fill Modified cement with additives mixed at 10.7 ppg (yield = 2.92 ft <sup>3</sup> /sx).  Approximately 340 sx Halliburton Tuned Light RS-1 cement with additives mixed at 11.5 ppg (yield = 3.21 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation; estimated TOC 850'.

#### 6. Mud Program

<u>Interval</u>	Weight	<u>Viscosity</u>	Fluid Loss (API filtrate)	Remarks
40' – 850'	8.3 - 8.8	26 – 36	NC	Freshwater Spud Mud Fluid
			j	System
850' – TD	8.6 - 10.6	42-52	20 cc or less	DAP Polymer Fluid System

Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.

#### 7. Testing, Logging and Core Programs

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface).
00 0	FMI & Sonic Scanner to be run at geologist's discretion.

#### 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4684 psi\* and maximum anticipated surface pressure equals approximately 2815 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

#### 9. Auxiliary equipment

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

<sup>\*</sup>Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

<sup>\*\*</sup>Maximum surface pressure = A - (0.22 x TD)

#### 10. Location and Type of Water Supply

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

#### 11. <u>Drilling Schedule</u>

Location Construction:

Approximately September 1, 2008

Spud:

Approximately September 15, 2008

Duration:

20 days drilling time

45 days completion time

# 7-26-47 DLB Proposed Cementing Program

Job Recommendation Surface				
Lead Cement - (350' - 0')				
Halliburton Light Premium	Fluid Weight:	12.7	lbm/gal	
1.0% Calcium Chloride	Slurry Yield:	1.82	ft³/sk	
0.125 lbm/sk Ploy-E-Flake	Total Mixing Fluid:	9.72	Gal/sk	
	Top of Fluid:	0'		
	Calculated Fill:	350'		
	Volume:	34.16	bbl	
	Proposed Sacks:	120	sks	
Tail Cement - (TD - 350')				
Premium Cement	Fluid Weight:	15.8	lbm/gal	
2.0% Calcium Chloride	Slurry Yield:	1.20	ft <sup>3</sup> /sk	
0.125 lbm/sk Ploy-E-Flake	Total Mixing Fluid:	5.238	Gal/sk	
	Top of Fluid:	350'		
	Calculated Fill:	500'		
	Volume:	48.80	bbl	
	Proposed Sacks:	230	sks	

Job Recommendation		Produc	ction Casing
Lead Cement - (4690' - 850')			
Halliburton Hi-Fill Modified	Fluid Weight:	10.7	lbm/gal
0.2% HR-5	Slurry Yield:	2.92	ft <sup>3</sup> /sk
0.25 lbm/sk Poly-E-Flake	Total Mixing Fluid:	17.26	Gal/sk
5.0 lbm/sk Gilsonite	Top of Fluid:	850'	
	Calculated Fill:	3,840'	
	Volume:	190.02	bbl
	Proposed Sacks:	370	sks
Tail Cement - (8497' - 4690')			
Halliburton Tuned Light RS-1	Fluid Weight:	11.5	lbm/gal
0.2% Super CBL	Slurry Yield:	3.21	ft <sup>3</sup> /sk
0.2% HR-5	Total Mixing Fluid:	18.56	Gal/sk
	Top of Fluid:	4,690'	
	Calculated Fill:	3,807'	
	Volume:	188.40	bbl
	Proposed Sacks:	340	sks



# **BILL BARRETT CORPORATION**

1099 18<sup>th</sup> St., Suite 2300 Denver, CO 80202

Field: Brundage/Lake Canyon

Geological Basin: <u>Uinta</u> Well Name: <u>General</u>

Location: Duchesne County, UT

# KCL Polymer Drilling Fluid Recommendation

Prepared for: Mr. Dominic Spencer

August 17, 2006

Submitted by: Isaac Womack, Tech. Prof., Baroid product service line, Halliburton 1125 17<sup>th</sup> St., Suite 1900 Denver, CO 80202 303.675.4476 isaac.womack@Halliburton.com



#### DRILLING PROGRAM BRIEFING

Well total depth

8,500' TMD

Casing design

Surface Production Hole Size 12 ¼" 7 7/8"

Casing 9 5/8" 5 ½"

**Length** 750' 8500'

\*Fluid density

8.3 - 9.0 ppg from

0' to 750'

8.6 - 10.0 ppg from 750' to 8500'

NOTE: Data taken from off-set wells in Duchesne County, UT

\*The drilling fluid density schedule is intended as a guideline only. Actual drilling fluid densities should be determined by well bore conditions and drilling parameters.

Estimated drilling days

0' to 750'

= 2 days (12 1/4" Hole)

750' to 8,500'

= 16days (7 7/8" Hole)

Total = 18 days

**Drilling fluid systems** 

0' to 750'

- Freshwater Spud Mud

750' to 8,500'

- KCL Polymer

Solids control equipment:

0' - 8,500'

- Two Shale Shakers

Desander / Desilter / DegasserOne High Speed Centrifuge

(if available)

Est. total drilling fluid cost:

\$ 17,219.00

#### **DRILLING FLUID PROGRAM SUMMARY**

The following drilling fluid systems are proposed for the Brundage Canyon well:

HOLE SIZE (in.)	DRILLING FLUID SYSTEM	FLUID DENSITY (ppg)	INTERVAL LENGTH FROM - TO
12 1/4"	Freshwater spud mud fluid system	8.3 – 9.0	0' to 750'
8 <sup>3/4</sup> "	KCL Polymer fluid system	8.6 - 10.6	750' to 8,500'

#### 12 1/4" Hole Section (0' to 750' TMD)

A freshwater spud mud drilling fluid system is recommended to drill this interval. Drill out conductor casing shoe with freshwater using additions of AQUAGEL and EZ-MUD to maintain fluid properties, as well as in hi-vi sweeps to facilitate hole cleaning. Pump BARACARB (25/50)/ sawdust sweeps prior to tripping out of the hole. Monitor the drill-string for tight connections. Expect minor to severe lost circulation in this interval. Pump sweeps of saw dust/ BARACARB at 5-10 ppb for minor seepage and sweeps of N-seal at 5 ppb and saw dust at 10 ppb for more severe losses. When total depth (TD) is reached make a wiper trip to the shoe to "clean up" the well bore, a string of 9 5/8" casing will then be set and cemented back to surface.

#### 7 7/8" Hole Section ( 750' to 8,500' TMD )

After drilling the surface hole section, dump all of the drilling fluid used in the surface interval to the reserve pit. Check reserve pit water to make sure it is acceptable to use for drilling fluid.

Mud up with the following:

- .5 lb./bbl N-Vis P
- 2 lb/bbls ZEOGEL
- .5 lb/bbl BARACOR 700 (or phosphates over 1300 ppm (see corrosion program)) 3% by volume KCL

Maintain 3% KCL in the reserve pit while drilling this section. (add 3.5 ppb for every 1% increase)

Test for % of KCL

((ml of .282 Silver Nitrate added \* 10,000)/3280) = %KCL \*record and report this concentration on each mud report

Add BARACAT to reserve pit to flocculate out solids. This system should have sufficient YP to keep the hole clean while drilling this interval.

Lost Circulation: Should losses occur while drilling the lateral section add BARACARB (5) OR BARACARB (50) to control. (BARACARB can be acidized) Concentrations of BARACARB will be determined by the losses encountered. Expect increased lost circulation with increases in drilling fluid density. Continue to monitor and record all

#### **Brundage Canyon**

#### **Duchesne County, Utah**

instances of gas kicks, water flows and lost circulation, adjust mud weight as needed. Sweeps of LUBRA-BEADS may help reduce mechanical torque due to the dog-legs. When lateral has been drilled, circulate the hole clean and run production casing.

Recommended Drilling Fluids Properties							
Drilling Depth (ft)	Fluid Density (lb/gal)	Funnel Viscosity (sec/qt)	API Filtrate (ml)	рН	Plastic Viscosity (cP)	Yield Point (lbs/100ft²)	Low Gravity Solids (% by Vol)
0' – 750'	8.3 - 8.8	26 – 36	NC	7.0- 8.5	0 – 15	0 - 24	< 8
Surface casing: 9 5/8" set at 750' TMD							

- Spud with freshwater. Circulate through a reserve pit if possible.
- ♦ Mix 10.0-ppb AQUAGEL, 1.0 ppb EZ MUD, and 0.5-ppb lime in 50 bbl sweeps to improve well bore cleaning.
- Mix 1.0 gal. EZ-MUD down drill sting on connections for shale inhibition and optimum drill solids removal by the solids control equipment.
- Mix sweeps of saw dust/ BARACARB(25/50) at 5-10 ppb for minor seepage and N-seal at 5 ppb and saw dust at 10 ppb for more severe losses.
- If well bore conditions indicate, mud up to a KCL fluid system as indicated in the production interval.

Drilling Depth (ft)	Fluid Density (lb/gal)	Funnel Viscosity (sec/qt)	API Filtrate (ml)	рН	Plastic Viscosity (cP)	Yield Point (lbs/100ft²)	Low Gravity Solids (% by Vol)
750' — 8,500'	8.6 - 10.6	42 - 52	<20	10.5- 12.0	0-15	0-20	< 8
		Production	casing: 5 1/2	≨" set at 8	,500' TMD		

- Drill out the surface casing shoe with KCL Polymer fluid system.
- Build initial pH with caustic soda then maintain with lime
- ♦ Additions of 0.5-ppb BARAZAN D can be used to enhance the low end rheology for optimum well bore cleaning and a lower solids drilling fluid.
- ♦ For seepage losses sweep the hole with 10.0-ppb BARACARB (25/50) in sweeps.
- ◆ For more severe losses sweep the hole with 5.0-ppb N-SEAL and 10.0-ppb Saw Dust. If losses can't be controlled, spot an 80.0-ppb HYDRO-PLUG pill across the loss zone(s).
- Spot pills of LUBRA-BREADS and/or TOURQE-LESS for additional torque and drag reduction as needed in dog-legs.

Bill Barrett Corporation E-bill Do Not Mail-1099 18th St,ste 2300w Denver, Colorado 80202

Cedar Rim Field Duchesne County, Utah United States of America

# **Cement Surface Casing**

Prepared for: Dominic Spencer

June 6, 2008 Version: 1

Submitted by: Jared Fenton Halliburton 1125 17th Street #1900 Denver, Colorado 80202 303.249.7704

**HALLIBURTON** 

#### Job Recommendation

Cement Surface

Casing

Fluid Instructions

Fluid 1: Water Spacer

Water Spacer Fluid Density: 8.340 lbm/gal

0.42 lbm/bbl Halliburton Gel (Light Weight Additive) Fluid Volume: 20 bbl

0.125 lbm/bbl Poly-E-Flake (Lost Circulation Additive)

Fluid 2: Lead Cement

Halliburton Light Premium Fluid Weight 12.700 lbm/gal

1 % Calcium Chloride (Accelerator) Slurry Yield: 1.819 ft<sup>3</sup>/sk 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) Total Mixing Fluid: 9.716 Gal/sk

Top of Fluid: 0 ft

Calculated Fill: 1500 ft

Volume: 146.425 bbl Calculated Sacks: 451.961 sks

Proposed Sacks: 451.961 sk

Fluid 3: Tail Cement

Premium Cement Fluid Weight 15.600 lbm/gal

2 % Calcium Chloride (Accelerator) Slurry Yield: 1.197 ft<sup>3</sup>/sk

0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) Total Mixing Fluid: 5.238 Gal/sk Top of Fluid: 1500 ft

Calculated Fill: 800 ft

Volume: 78.093 bbl

Calculated Sacks: 366.301 sks
Proposed Sacks: 370 sks

#### Job Recommendation

#### **Cement Production Casing**

Fluid Instructions

Fluid 1: Water Spacer

5 bbl Water

Fluid Density:

8.330 lbm/gal

Fluid Volume:

5 bbl

Fluid 2: Reactive Spacer

Super Flush 101 XLC

Fluid Density:

10 lbm/gal

4.16667 gal/Mgal

LGC-35 CBM (Gelling Agent)

Fluid Volume:

40 bbl

1 lbm/bbl

Tuf Fiber 594 (Lost Circulation Additive)

Fluid 3: Water Spacer

5 bbl Water

Fluid Density:

8.330 lbm/gal

Fluid Volume:

5 bbl

Fluid 4: 10.5# CBM Lite (Type V)

VARICEM (TM) CEMENT

0.3 % SteelSeal (Additive Material)

1 lbm/sk Pheno Seal - Blend (Lost Circulation Additive) Total Mixing Fluid:

0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) 1 lbm/sk Tuf Fiber 594 (Lost Circulation Additive)

Fluid Weight Slurry Yield:

10.500 lbm/gal 4.312 ft<sup>3</sup>/sk 27.925 Gal/sk

Top of Fluid: 27.925

Calculated Fill: 51

511 ft 38.400 bbl

Volume: Calculated Sacks:

50 sks

Proposed Sacks:

50 sks

Fluid 5: Highbond 75

HALCEM (TM) SYSTEM

0.2 % HR-5 (Retarder)

0.25 lbm/sk Poly-E-Flake (Lost Circulation Additive) 5 lbm/sk Gilsonite (Lost Circulation Additive)

Fluid Weight Slurry Yield:

Total Mixing Fluid:

10.700 lbm/gal 2.917 ft<sup>3</sup>/sk 17.263 Gal/sk

Top of Fluid: Calculated Fill:

3575 ft 3293 ft

Volume:

247.452 bbl 476.292 sks

Calculated Sacks: 47
Proposed Sacks: 48

480 sks

0.2 % Super CBL (Expander) 0.2 % HR-5 (Retarder)

Slurry Yield: Total Mixing Fluid: Top of Fluid: 3.208 ft<sup>3</sup>/sk 18.558 Gal/sk

Calculated Fill:

6868 ft 4275 ft

Volume:

241.355 bbl

Calculated Sacks:

422.416 sks

Proposed Sacks:

425 sks

Fluid 7: Water Based Spacer

Clay Fix II

0.1 gal/bbl Clayfix II (Clay Control) Fluid Density: Fluid Volume:  $8.400 \, lbm/gal$ 259.050 bbl

Well name:

Brundage / Lake Canyon General

Operator:

**Bill Barrett Corporation** 

String type: Surface

ocation:

Duchesne County, UT

Design parameters:

**Collapse** 

Mud weight:

8.60 ppg

Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor

1.125

**Environment:** 

H2S considered?

Surface temperature: Bottom hole temperature: 70.00 °F 79 °F

No

Temperature gradient:

1.22 °F/100ft

Minimum section length:

750 ft

Burst:

Design factor

1.10

1.80 (J)

1.80 (J)

1.80 (J)

Cement top:

Surface

<u>Burst</u>

Max anticipated surface

No backup mud specified.

pressure:

303 psi 0.22 psi/ft

Internal gradient:

468 psi

Calculated BHP

Buttress:

Premium:

Body yield:

Tension: 8 Round STC:

8 Round LTC:

1.80 (J) 1.80 (B)

Tension is based on buoyed weight. Neutral point: 655 ft Non-directional string.

Re subsequent strings:

Next setting depth:

Next mud weight: Next setting BHP:

4,283 psi Fracture mud wt: 12.000 ppg

Fracture depth: Injection pressure 750 ft 468 psi

8,500 ft 9.700 ppg

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	750	9.625	36.00	J-55	ST&C	750	750	8.796	53.4
Run Seq	Collapse Load (psi) 335	Collapse Strength (psi) 2020	Collapse Design Factor 6.029	Burst Load (psi) 468	Burst Strength (psi) 3520	Burst Design Factor 7.53	Tension Load (Kips) 24	Tension Strength (Kips) 394	Tension Design Factor 16.72 J

Prepared Dominic Spencer by: Bill Barrett

Phone: (303) 312-8143 FAX: (303) 312-8195

Date: July 21,2006 Denver, Colorado

Remarks:

Collapse is based on a vertical depth of 750 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

Brundage / Lake Canyon General

**Bill Barrett Corporation** Operator:

String type:

Production

Location:

Duchesne County, UT

Design parameters:

Design is based on evacuated pipe.

Collapse

Mud weight:

9.70 ppg

Minimum design factors:

Collapse:

Design factor

1.125

**Environment:** 

H2S considered? Surface temperature:

Bottom hole temperature: Temperature gradient:

No 70.00 °F 186 °F

1.22 °F/100ft

Minimum section length:

1,500 ft

Burst:

Design factor

1.10

1.80 (J) 1.80 (J)

1.60 (J)

Cement top:

2,000 ft

<u>Burst</u>

Max anticipated surface

pressure:

2,697 psi

Internal gradient: Calculated BHP

No backup mud specified.

0.22 psi/ft 4,787 psi

8 Round LTC:

Premium: Body yield:

Tension: 8 Round STC: Buttress:

1.50 (J) 1.50 (B)

Tension is based on buoyed weight.

Non-directional string.

8,103 ft Neutral point:

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	9500	5.5	17.00	1-80	LT&C	9500	9500	4.767	327.4
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips) 138	Tension Strength (Kips) 348	Tension Design Factor 2.53 J
1	4787	6290	1.314	4787	7740	1.62	138	340	2.55 5

Prepared Dominic Spencer by: Bill Barrett

Phone: (303) 312-8143 FAX: (303) 312-8195

Date: August 11,2006 Denver, Colorado

Remarks:

Collapse is based on a vertical depth of 9500 ft, a mud weight of 9.7 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

<i>l-80</i>	Outside	Weight	Thread		-80 Perfo	ormance F	roperties	i		J-55 Perf	ormance l	Propertie	s ·		1-80 Per	formance	Propertie	s
Performance	Diameter,	T & C,	Type	Collapse,	Burst,	Tension,		Maximum		Burst,	Tension, 1	000 lbs	Maximum		Burst,	Tension,	1000 lbs	Maximu
	inch	lb per ft		psi	psi	Pipe Body		Set Depth,	psi	psi	Pipe Body		Set Depth,	psi	psi	Pipe Body		Set Dep
Property						Yield	Strength	feet			Yield	Strength	feet			Yield	Strength	feet
Comparison	4.500	9.50	Short	3900	6380	221	138	6930	3310	4380	450	404	E000	0000	0000	ood.	440	
	4.500	10.50	Short	4940	6970	241	173	8780	4010	4380 4790	152 165	101 132	5890 7000	3900 4940	6380 6970	221 241	143	6930 8780
•		11.60	Long	6350	7780	267	201	9610	4960	5350	184	162	7760	6350	7780	267	186	
•		11.00	Long	5000	7100	201	201	0010	4000	0000	104	102	1100	0330	1100	267	223	10680
	5.500	14.00	Short	3620	6210	322	234	6440	3120	4270	222	172	5550	3620	6210	322	243	6440
		15.50	Long	4990	7000	361	282	8870	4040	4810	248	217	7180	4990	7000	361	306	8870
	•	17.00	Long	6280	7740	397	320	10470	4910	5320	273	247	8060	6280	7740	397	348	11170
	7.000	20.00	Short	2740	5440	460	320	4870	2270	3740	316	234	4040	2740	5440	460	331	4870
		23.00	Long	3830	6340	532	428	6810	3270	4360	366	313	5810	3830	6340	532	442	681C
,		26.00	Long	5410	7240	604	502	9620	4320	4980	415	367	7680	5410	7240	604	519	9620
													•					
	8.625	24.00	Short	1430	4290	555	337	2540	1370	2950	381	244	2440	1430	4290	555	346	2540
		28.00	Long	2160	4930	636	478	3840	1880	3390	437	348	3340	2160	4930	636	493	3840
, the discussion of the same definition of the state of the same o		32.00	Long	3050	5710	732	574	5420	2530	3930	503	417	4500	3050	5710	732	591	5420
I-80 Dimensions,	Outside	Weight	Thread		Dim	ensions, i	inch		Ma	ke-Up To	rque	Hydro-						
		Weight T & C,	Thread Type	Wall	<b>Dim</b> Inside	ensions, i Drift	inch Coupling			ft x lbs		Hydro- Test						
Torques and	Diameter,			Wall Thickness	Inside	Drift	Coupling Outside	Loss		ft x lbs	<b>rque</b> n Maximum	Test Pressure	's	4 ADID.	N-45- 50	o obit F		
Torques and Hydro-Test	Diameter,	T & C,			Inside	Drift	Coupling	Loss		ft x lbs		Test	·			3, Sixth Ec		tho
Torques and	Diameter, inch	T & C, lb per ft	Туре	Thickness	Inside Diameter	Drift Diameter	Coupling Outside Diarneter	Loss	Optimum	ft x lbs Minimum	ı Maximum	Test Pressure psi	· ·	October 1	994 was	3, Sixth Ec s used to d		the
Torques and Hydro-Test	Diameter,	T & C, lb per ft	Type Short	Thickness 0.205	Inside Diameter 4.090	Drift Diameter 3.965	Coupling Outside Diameter 5.000	Loss 2.000	Optimum	ft x lbs Minimum 1040	n Maximum 1730	Test Pressure psi 5800	·	October 1 listed prop	994 was perties.	used to d	letermine	
Torques and Hydro-Test	Diameter, inch	T & C, lb per ft 9.50 10.50	Type Short Short	0.205 0.224	Inside Diameter 4.090 4.052	Drift Diameter 3.965 3.927	Coupling Outside Diameter 5.000 5.000	2.000 2.625	Optimum 1380 1790	ft x lbs Minimum 1040 1340	1730 2240	Test Pressure psi 5800 6400	i -	October 1 listed prop 2. The ve	994 was perties. rtical set	used to d	letermine s compute	ed
Torques and Hydro-Test	Diameter, inch	T & C, lb per ft	Type Short	Thickness 0.205	Inside Diameter 4.090	Drift Diameter 3.965	Coupling Outside Diameter 5.000	Loss 2.000	Optimum	ft x lbs Minimum 1040	n Maximum 1730	Test Pressure psi 5800	• -	October 1 listed prop 2. The verusing a 9.	994 was perties. rtical set 625 lb. p	used to do depth was per U.S. ga	etermine s compute	ed ,
Torques and Hydro-Test	Diameter, inch	T & C, lb per ft 9.50 10.50	Short Short Short Long	0.205 0.224 0.250	Inside Diameter 4.090 4.052 4.000	Drift Diameter 3.965 3.927 3.875	Coupling Outside Diameter 5.000 5.000	2.000 2.625 3.000	Optimum 1380 1790 2190	ft x lbs Minimum 1040 1340 1640	1730 2240 2740	Test Pressure psi 5800 6400 7100	-	October 1 listed prop 2. The verusing a 9. and safety	994 was perties. rtical set 625 lb. p g factors	depth was oer U.S. ga of 1.125,	etermine compute allon mud 1.0 and 1	ed ,
Torques and Hydro-Test	Diameter, inch 4.500	T & C, lb per ft 9.50 10.50 11.60	Short Short Long Short	0.205 0.224	Inside Diameter 4.090 4.052	Drift Diameter 3.965 3.927	Coupling Outside Diameter 5.000 5.000	2.000 2.625 3.000 2.875	Optimum  1380 1790 2190 2340	ft x lbs Minimum 1040 1340	1730 2240	Test Pressure psi 5800 6400 7100	-	October 1 listed properties. The vertical using a 9, and safety respective.	994 was perties. rtical set 625 lb. p g factors	used to do depth was per U.S. ga	etermine compute allon mud 1.0 and 1	ed ,
Torques and Hydro-Test	Diameter, inch 4.500	T & C, lb per ft 9.50 10.50 11.60	Short Short Short Long	0.205 0.224 0.250 0.244	Inside Diameter 4.090 4.052 4.000 5.012	Drift Diameter 3.965 3.927 3.875 4.887	Coupling Outside Diameter 5.000 5.000 5.000	2.000 2.625 3.000	Optimum 1380 1790 2190	ft x lbs Minimum 1040 1340 1640	1730 2240 2740 2930	Test Pressure psi 5800 6400 7100		October 1 listed prop 2. The verusing a 9. and safety respective tension.	994 was perties. rtical set 625 lb. p factors ely, for co	depth was ber U.S. ga of 1.125, ollapse, bu	etermine s compute allon mud 1.0 and 1 irst and	ed , .8
Torques and Hydro-Test	Diameter, inch 4.500	T & C, lb per ft 9.50 10.50 11.60 14.00 15.50	Short Short Long Short Long	0.205 0.224 0.250 0.244 0.275	Inside Diameter 4.090 4.052 4.000 5.012 4.950	Drift Diameter 3.965 3.927 3.875 4.887 4.825	Coupling Outside Diameter 5.000 5.000 5.000 6.050 6.050	2.000 2.625 3.000 2.875 3.500	Optimum  1380 1790 2190  2340 2950	ft x lbs Minimum 1040 1340 1640 1760 2210	1730 2240 2740 2930 3690	Test Pressure psi 5800 6400 7100 5700 6400	·	October 1 listed prop 2. The verusing a 9 and safety respective tension. 3. Produc	994 was perties. rtical set 625 lb. p factors ely, for co	depth was per U.S. ga of 1.125, ollapse, bu	etermine s compute allon mud 1.0 and 1 urst and	ed , .8
Torques and Hydro-Test	Diameter, inch 4.500	T & C, lb per ft 9.50 10.50 11.60 14.00 15.50	Short Short Long Short Long	0.205 0.224 0.250 0.244 0.275 0.304 0.272	Inside Diameter 4.090 4.052 4.000 5.012 4.950 4.892 6.456	Drift Diameter 3.965 3.927 3.875 4.887 4.825 4.767 6.331	Coupling Outside Diarneter  5.000 5.000 5.000 6.050 6.050 6.050 7.656	2.000 2.625 3.000 2.875 3.500 3.500	1380 1790 2190 2340 2950 3350 3200	ft x lbs Minimum 1040 1340 1640 1760 2210 2510 2400	1730 2240 2740 2930 3690	Test Pressure psi 5800 6400 7100 5700 6400 7100	·	October 1 listed prop 2. The verusing a 9. and safety respective tension. 3. Produc with IPSC	994 was perties. rtical set 625 lb. p factors ely, for co	depth was ber U.S. ga of 1.125, ollapse, bu	etermine s compute allon mud 1.0 and 1 urst and	ed , .8
Torques and Hydro-Test	Diameter, inch 4.500	7 & C, lb per ft  9.50 10.50 11.60 14.00 15.50 17.00 20.00 23.00	Short Short Long Short Long Long	0.205 0.224 0.250 0.244 0.275 0.304 0.272 0.317	1nside Diameter 4.090 4.052 4.000 5.012 4.950 4.892 6.456 6.366	Drift Diameter 3.965 3.927 3.875 4.887 4.825 4.767 6.331 6.250	Coupling Outside Diameter  5.000 5.000 5.000 6.050 6.050 6.050 7.656 7.656	2.000 2.625 3.000 2.875 3.500 3.500 3.125 4.000	1380 1790 2190 2340 2950 3350 3200 4280	ft x lbs Minimum 1040 1340 1640 1760 2210 2510 2400 3210	1730 2240 2740 2930 3690 4190 4000 5350	Test Pressure psi 5800 6400 7100 5700 6400 7100 5000 5800	·	October 1 listed prop 2. The verusing a 9. and safety respective tension. 3. Produc with IPSC QB2.	994 was perties. rtical set 625 lb. p. / factors bly, for co ts are av cois prer	depth was der U.S. ga of 1.125, ollapse, bu vailable pla nium conn	etermine s compute allon mud 1.0 and 1 urst and ain end ar ects QB1	ed , .8
Torques and Hydro-Test	Diameter, inch 4.500	7 & C, lb per ft 9.50 10.50 11.60 14.00 15.50 17.00	Short Short Long Short Long Long	0.205 0.224 0.250 0.244 0.275 0.304 0.272	Inside Diameter 4.090 4.052 4.000 5.012 4.950 4.892 6.456	Drift Diameter 3.965 3.927 3.875 4.887 4.825 4.767 6.331	Coupling Outside Diarneter  5.000 5.000 5.000 6.050 6.050 6.050 7.656	2.000 2.625 3.000 2.875 3.500 3.500	1380 1790 2190 2340 2950 3350 3200	ft x lbs Minimum 1040 1340 1640 1760 2210 2510 2400	1730 2240 2740 2930 3690 4190	Test Pressure psi 5800 6400 7100 5700 6400 7100	-	October 1 listed prop 2. The verusing a 9. and safety respective tension. 3. Produc with IPSC QB2. 4. As a se	994 was perties. rtical set 625 lb. p / factors ely, for co ts are av COIs prer	depth was per U.S. ga of 1.125, ollapse, bu vailable pla nium conn	etermine s compute allon mud 1.0 and 1 urst and ain end ar ects QB1	ed , .8
Torques and Hydro-Test	Diameter, inch 4.500 5.500 7.000	7 & C, lb per ft  9.50 10.50 11.60 14.00 15.50 17.00 20.00 23.00 26.00	Short Short Long Short Long Long Short Long Long	0.205 0.224 0.250 0.244 0.275 0.304 0.272 0.317 0.362	1nside Diameter 4.090 4.052 4.000 5.012 4.950 4.892 6.456 6.366 6.276	Drift Diameter 3.965 3.927 3.875 4.887 4.825 4.767 6.331 6.250 6.151	Coupling Outside Diameter  5.000 5.000 6.050 6.050 6.050 7.656 7.656 7.656	2.000 2.625 3.000 2.875 3.500 3.500 3.125 4.000 4.000	1380 1790 2190 2340 2950 3350 3200 4280 5020	ft x lbs Minimum 1040 1340 1640 1760 2210 2510 2400 3210 3770	1730 2240 2740 2930 3690 4190 4000 5350 6280	Test Pressure psi 5800 6400 7100 5700 6400 7100 5000 5800 6600	-	October 1 listed prop 2. The verusing a 9. and safety respective tension. 3. Produc with IPSC QB2. 4. As a se	994 was perties. rtical set 625 lb. p / factors ely, for co ts are av COIs prer	depth was der U.S. ga of 1.125, ollapse, bu vailable pla nium conn	etermine s compute allon mud 1.0 and 1 urst and ain end ar ects QB1	ed , .8
Torques and Hydro-Test	Diameter, inch 4.500	T & C, lb per ft  9.50 10.50 11.60 14.00 15.50 17.00 20.00 23.00 26.00 24.00	Short Short Long Long Short Long Short Long Short Long Long Short Long Long Short	0.205 0.224 0.250 0.244 0.275 0.304 0.272 0.317 0.362 0.264	1nside Diameter 4.090 4.052 4.000 5.012 4.950 4.892 6.456 6.366 6.276 8.097	Drift Diameter 3.965 3.927 3.875 4.887 4.825 4.767 6.331 6.250 6.151 7.972	Coupling Outside Diameter  5.000 5.000 6.050 6.050 6.050 7.656 7.656 7.656 9.625	2.000 2.625 3.000 2.875 3.500 3.500 3.125 4.000 4.000	1380 1790 2190 2340 2950 3350 3200 4280 5020	ft x lbs Minimum 1040 1340 1640 1760 2210 2510 2400 3210 3770 2530	1730 2240 2740 2930 3690 4190 4000 5350 6280 4210	Test Pressure psi 5800 6400 7100 5700 6400 7100 5000 5800 6600	•	October 1 listed prop 2. The verusing a 9. and safety respective tension. 3. Produc with IPSC QB2. 4. As a se	994 was perties. rtical set 625 lb. p / factors ely, for co ts are av COIs prer	depth was per U.S. ga of 1.125, ollapse, bu vailable pla nium conn	etermine s compute allon mud 1.0 and 1 urst and ain end ar ects QB1	ed , .8
Torques and Hydro-Test	Diameter, inch 4.500 5.500 7.000	7 & C, lb per ft  9.50 10.50 11.60 14.00 15.50 17.00 20.00 23.00 26.00	Short Short Long Short Long Long Short Long Long	0.205 0.224 0.250 0.244 0.275 0.304 0.272 0.317 0.362	1nside Diameter 4.090 4.052 4.000 5.012 4.950 4.892 6.456 6.366 6.276	Drift Diameter 3.965 3.927 3.875 4.887 4.825 4.767 6.331 6.250 6.151	Coupling Outside Diameter  5.000 5.000 6.050 6.050 6.050 7.656 7.656 7.656	2.000 2.625 3.000 2.875 3.500 3.500 3.125 4.000 4.000	1380 1790 2190 2340 2950 3350 3200 4280 5020	ft x lbs Minimum 1040 1340 1640 1760 2210 2510 2400 3210 3770	1730 2240 2740 2930 3690 4190 4000 5350 6280	Test Pressure psi 5800 6400 7100 5700 6400 7100 5000 5800 6600	•	October 1 listed prop 2. The verusing a 9. and safety respective tension. 3. Produc with IPSC QB2. 4. As a se	994 was perties. rtical set 625 lb. p / factors ely, for co ts are av COIs prer	depth was per U.S. ga of 1.125, ollapse, bu vailable pla nium conn	etermine s compute allon mud 1.0 and 1 urst and ain end ar ects QB1	ed , .8

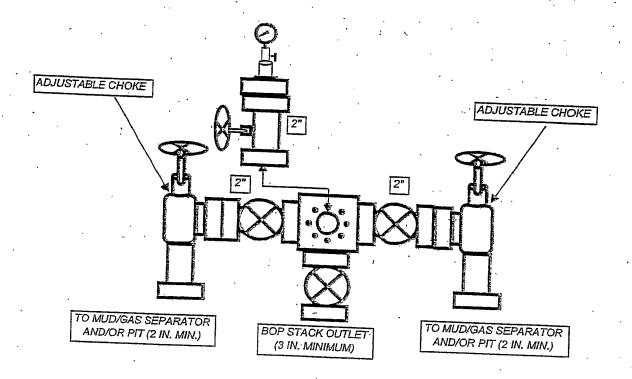
The information and data contained herein are accurate to our knowledge, based upon standard industry calculations. Buyers are encouraged to make their own evaluations of the above derived performance properties for their particular use. The specific warranty applicable to these goods is as contained in IPSCO's Order Acknowledgment, Conditions of Sale.



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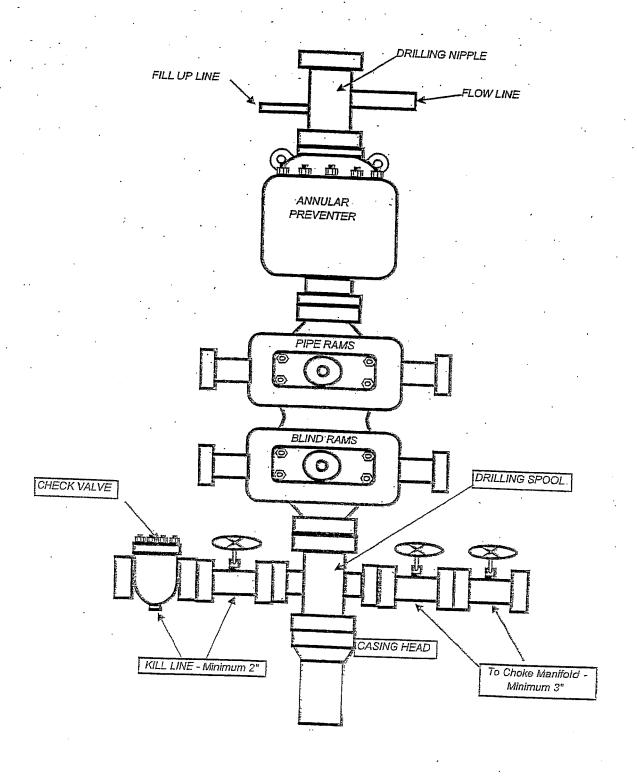
# BILL BARRETT CORPORATION

TYPICAL 3,000 p.s.i. CHOKE MANIFOLD



# BILL BARRETT CORPORATION

# TYPICAL 3,000 p.s.i. BLOWOUT PREVENTER



### Surface Use Plan for Bill Barrett Corporation's Development Program Lake Canyon Area Duchesne County, Utah

#### 1. Existing Roads:

The Lake Canyon area is located approximately 12 miles southwest of Duchesne, Utah and extends from Township 3 South, Range 10 West to Township 5 South, Range 6 West. The specific location of a particular well pad will be shown on maps and described in the site specific APD.

The use of state and county roads under UDOT and Duchesne County Road Department maintenance is necessary to access the Project Area. Improvements to existing access roads will be noted in the site specific APD's.

#### 2. Planned Access Roads:

Descriptions of the individual access road(s) will be included in the site specific APD and ROW application.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance with the Ute Indian Tribe.

#### 3. Location of Existing Wells With-In A One-Mile Radius

Water wells – None. Abandoned wells – (1) – SW/4, NE/4, Section 25, T4S, R7W. Temporarily abandoned wells – None. Disposal wells – None. Drilling wells – None Producing wells – None.

# 4. <u>Location of Tank Batteries, Production Facilities, and Production Gathering</u> <u>And Service Lines:</u>

The following guidelines will apply if the well is productive:

All permanent (on site for six months or longer) structures constructed or installed will conform to DOGM standards. All facilities will be painted within six months of installation.

A containment dike will be constructed completely around production facilities which contain fluids (i.e., production tanks, produced water tanks). This dike will

be constructed of compacted subsoil, be impervious, and hold a minimum of 110% of the capacity of the largest tank. Topsoil will not be used for the construction of dike(s).

A description of the proposed pipeline and a map illustrating the proposed route will be submitted with the well site specific APD.

#### 5. <u>Location and Type of Water Supply</u>

The Duchesne City Culinary Water Dock located in section 1, T4S-R5W will be used for water supply for drilling and completion operations. Additional water supply sources will be addressed in the site specific APD, indicating the location and type of water supply.

#### 6. Source of Construction Materials:

All construction materials for this location site and access road shall be borrowed (local) material accumulated during construction of the location site and access road. No construction materials will be removed from Ute Indian Tribe lands. If any gravel is used, it will be obtained from an approved gravel pit.

#### 7. <u>Methods of Handling Waste Materials:</u>

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including any salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be used at the next drill site or will be removed and disposed of at an approved waste disposal facility within 180 days after drilling is terminated. Immediately upon well completion, any hydrocarbons in the pit shall be removed.

Unless otherwise specified in the site specific APD, the reserve pit will be constructed on the location and will not be located within natural drainages, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not allow discharge of liquids.

If it is determined, at the onsite, that a pit liner is necessary, the reserve pit will be lined with a synthetic reinforced liner a minimum of 12-millimeters thick. The liner will overlay a felt-liner pad if rock that might tear or puncture the liner is encountered during excavation. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. Trash, scrap pipe, etc. that could puncture the liner will not be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operations. The pit liner will be protected during drilling and completion operations.

No water well will be drill on this lease. Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W. The trucked water will follow the access route described in the plat package of each APD. Production fluids will be contained in leak-proof tanks. All production fluids will be sold, recycled, or disposed of at approved disposal sites.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical self-contained sanitary-toilet will be onsite during drilling and completions.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. Trash will not be burned on location.

All debris and other waste materials not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The reserve pit fencing will be on three sides before drilling operations start. The fourth side will be fenced as soon as drilling is completed and the rig is removed. The fencing will be maintained until such time as the pits are backfilled.

#### 8. Ancillary Facilities:

Garbage containers and portable toilets are the only ancillary facilities proposed. No additional ancillary facilities are foreseen in the future.

#### 9. Wellsite Layout:

A Location Layout Diagram describing drill pad cross-sections, cuts and fills, and locations of mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and the surface materials stockpile(s) will be included with the site specific APD and developed through a consultant.

#### 10. Plans for Restoration of the Surface:

The dirt contractor will be provided with an approved copy of the surface use plan and these Standard Operating Procedures prior to commencing construction activities.

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production. All reclamation standards will be developed between Bill Barrett Corporation (BBC) and Ute Indian Tribe. Abandoned well sites, roads, and other

disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions may include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and the re-establishment of vegetation as specified.

All disturbed areas will be recontoured to the approximate natural contours.

Any drainage rerouted during the construction activities shall be restored as near as possible to its original line of flow.

Prior to backfilling the reserve pit, the fence surrounding the reserve pit will be removed. The pit liner will be cut off at the water or mud line and disposed of at an approved landfill site. The remaining liner will be torn and perforated after the pit dries and prior to backfilling the reserve pit.

Before any dirt work associated with reserve pit restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations. The reserve pit will be reclaimed within 180 days from the date of well completion, weather permitting, unless it is determined that this location will be utilized to drill additional wells within 1 year of completing operations.

After the reserve pit has been reclaimed, diversion ditches and water bars will be used to divert precipitation runon/runoff as appropriate.

Prior to the construction of the location, the top 6 inches or maximum available topsoil material will be stripped and stockpiled. Placement of the topsoil will be noted on the location plat attached to the site specific APD. Topsoil shall be stockpiled separately from subsoil materials. Topsoil salvaged from the reserve pit shall be stockpiled separately near the reserve pit. When all drilling and completion activities have been completed, the unused portion of the location (area outside the deadmen) will be recontoured and the stockpiled topsoil spread over the area.

If topsoil must be stored for more than one year:

It shall be windrowed on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.

It shall be broadcast seeded with the prescribed seed mixture immediately after windrowing. Seed will be drilled on the contour to an appropriate depth and the stockpile then "walked" with a dozer to cover the seed and roughen the soil to prevent erosion.

Mulching may be considered to enhance the re-establishment of desired native plant communities. If straw or hay mulch is used, the straw and hay must be certified to be weed-free and the documentation submitted prior to usage.

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeding, all disturbed areas, including the old access road will be scarified and left with a rough surface.

Ute Indian Tribe shall be contacted for the required seed mixture. Seed will be drilled on the contour to an appropriate depth. If broadcast seeded, the amount of seed mixture per acre will be doubled, and a harrow or some other implement will be dragged over the seeded area to assure coverage of the seeds.

At final abandonment, BBC will follow UT-DOGM standards for final well abandonment.

#### 11. Surface Ownership

The well location and proposed access road route is located on The Ute Indian Tribe surface estate.

I hereby certify that Bill Barrett Corporation has reached an agreement with The Ute Indian Tribe for the protection of surface resources and reclamation of disturbed areas and/or damages in lieu thereof.

Data

Reed Haddock - Permit Analyst

Bill Barrett Corporation

#### 12. Other Information:

The operator is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the BBC field representative to ensure compliance.

The operator will control noxious weeds along applied access road authorizations, pipeline route authorizations, well sites or other applicable facilities

Wells drilled during the fire season (June – October) all appropriate precautions shall be instituted to ensure that fire hazard is minimized, including, but not limited to, controlling vegetation and keeping fire fighting equipment readily available during all drilling and completion operations.

Drilling rigs and/or equipment used during drilling operations on locations will not be stacked or stored on Ute Indian Tribe administered lands after the conclusion of drilling operations or at any other time without permission by the Ute Indian Tribe. If Ute Indian Tribe permission is obtained, such storage will only be temporary measure.

Travel will be restricted to approved travel routes.

#### **OPERATOR CERTIFICATION**

This drilling permit will be valid for a period of two (2) years from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Bill Barrett Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

DATE: July 3, 2008

Reed Haddock Permit Analyst

#### **BBC Representatives:**

Reed Haddock Bill Barrett Corporation 1099 18<sup>th</sup> Street, Suite 2300 Denver, CO 80202

Phone: 303-312-8546 Fax: 303-291-0420

Scot Donato, Environmental Health and Safety; phone: (303) 312-8191

Mike Angus, Area Superintendent; phone: (435) 724-8016

#### Ute Indian Tribe Representatives:

Larry Love, Ute Indian Tribe, Energy and Mineral Department; phone: (435) 725-

4950; cell: (303) 476-1445

Bruce Pargeets, Ute Indian Tribe, Energy and Minerals Department; phone: (435)

725-4950; cell: (435) 828-7032

## **BILL BARRETT CORPORATION**

#7-26-47 DLB SECTION 26, T4S, R7W, U.S.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM DUCHESNE, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 8.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN WESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 7.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY. THEN SOUTHERLY, THEN EASTERLY. SOUTHWESTERLY DIRECTION APPROXIMATELY 3.6 MILES TO BEGINNING OF THE PROPOSED ACCESS TO THE NORTHEAST; FOLLOW ROAD IN NORTHEASTERLY, THEN NORTHERLY  $\mathbf{A}$ DIRECTION APPROXIMATELY 0.8 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 19.9 MILES.

## **BILL BARRETT CORPORATION**

#7-26-47 DLB

LOCATED IN DUCHESNE COUNTY, UTAH **SECTION 26, T4S, R7W, U.S.B.&M.** 



PHOTO: VIEW OF LOCATION STAKE

**CAMERA ANGLE: WESTERLY** 



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

**CAMERA ANGLE: EASTERLY** 

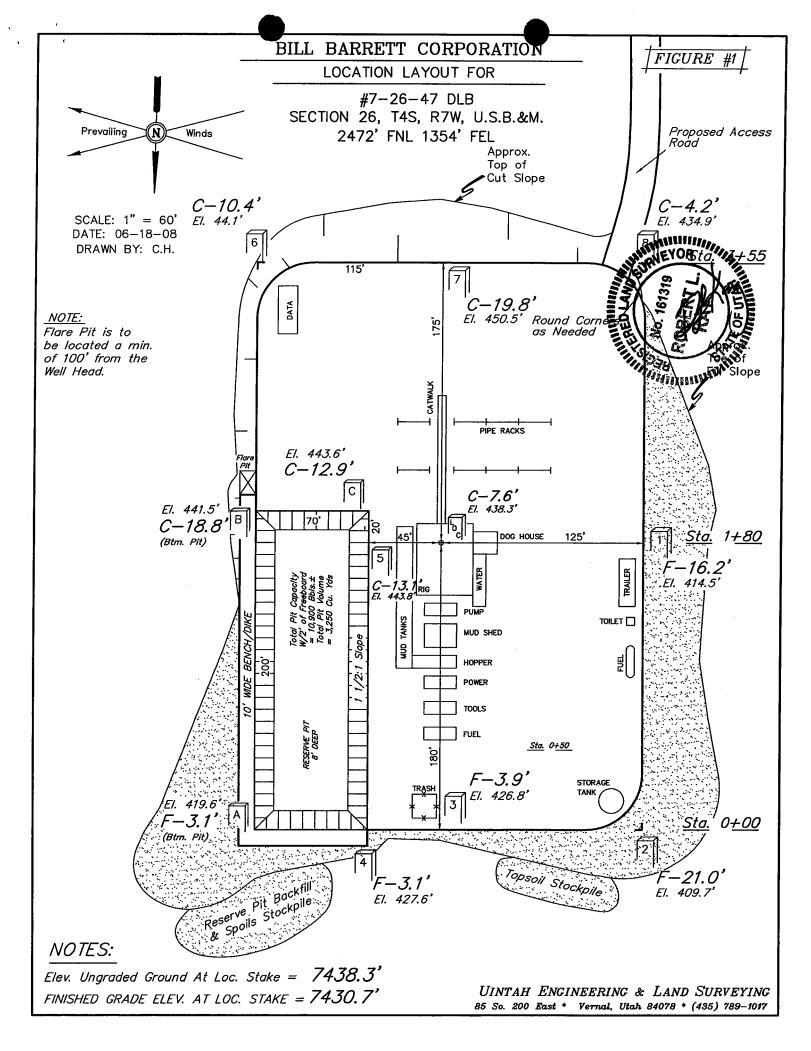


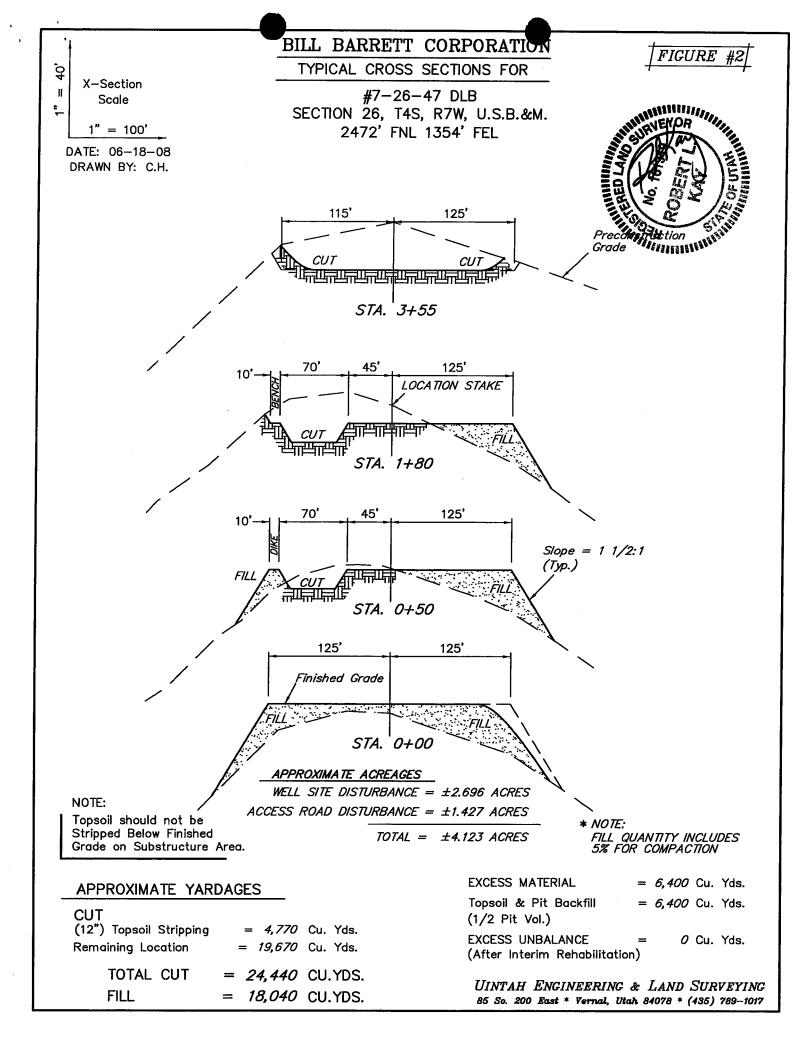
Uintah Engineering & Land Surveying 85 South 200 East Vernal, Utah 84078 435-789-1017

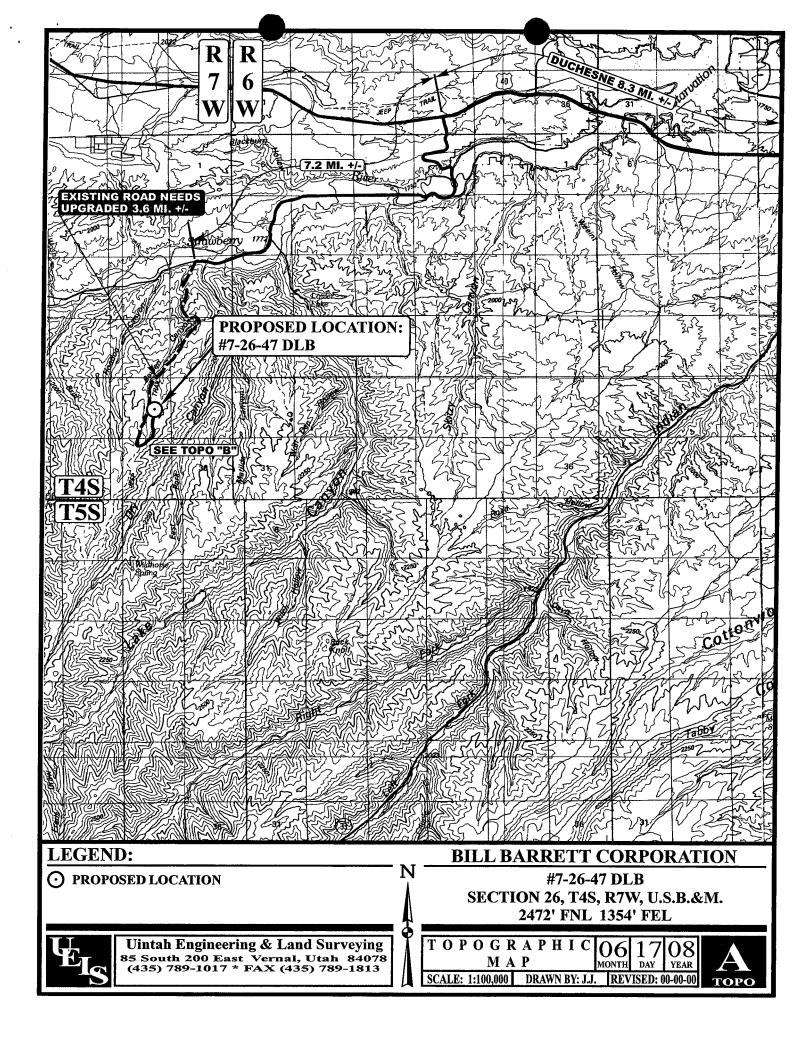
**LOCATION PHOTOS** 

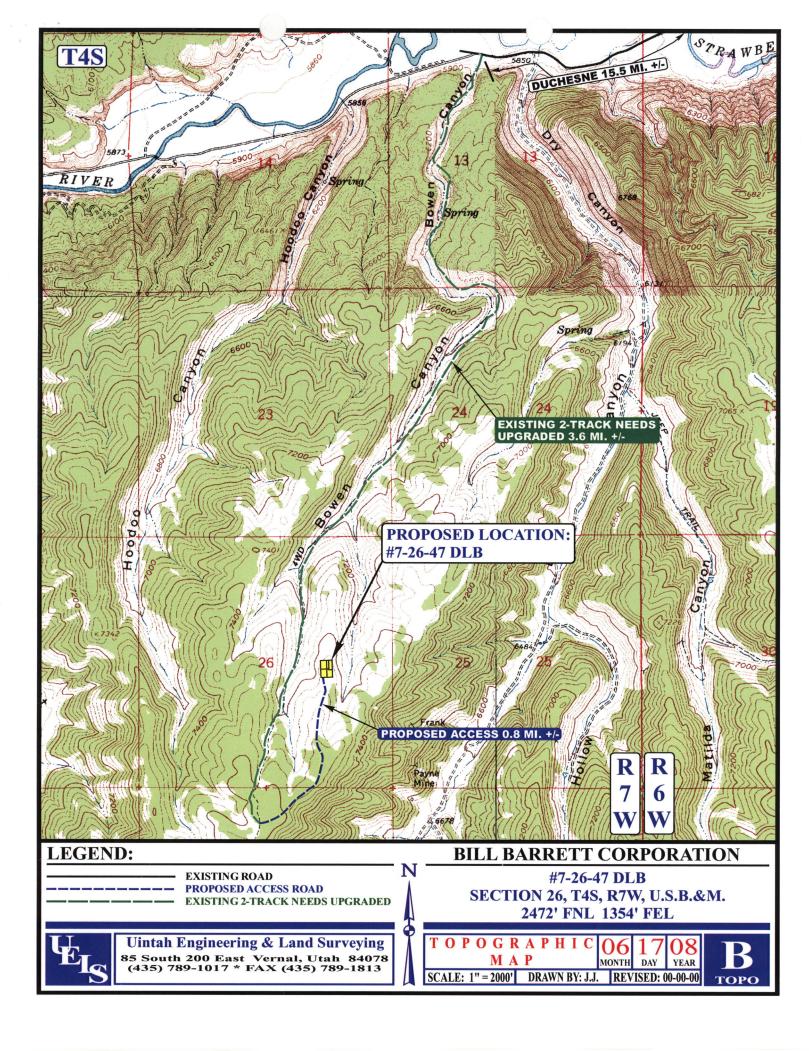
**РНОТО** 

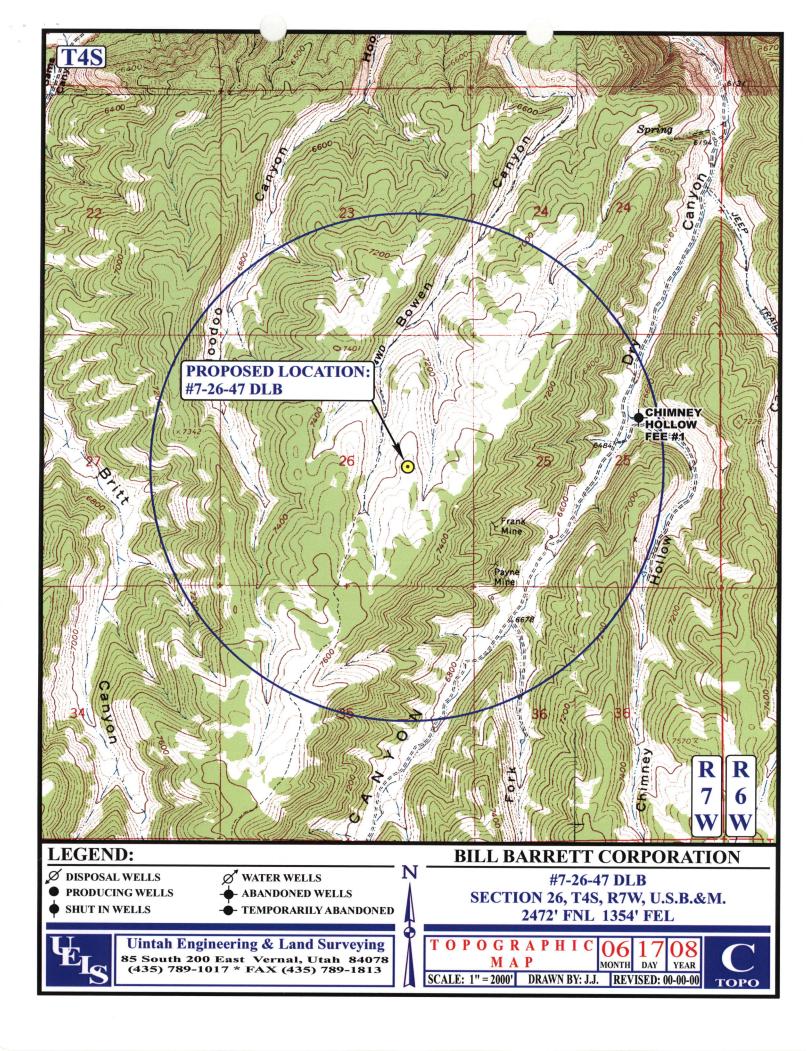
TAKEN BY: S.H. DRAWN BY: J.J. REVISED: 00-00-00



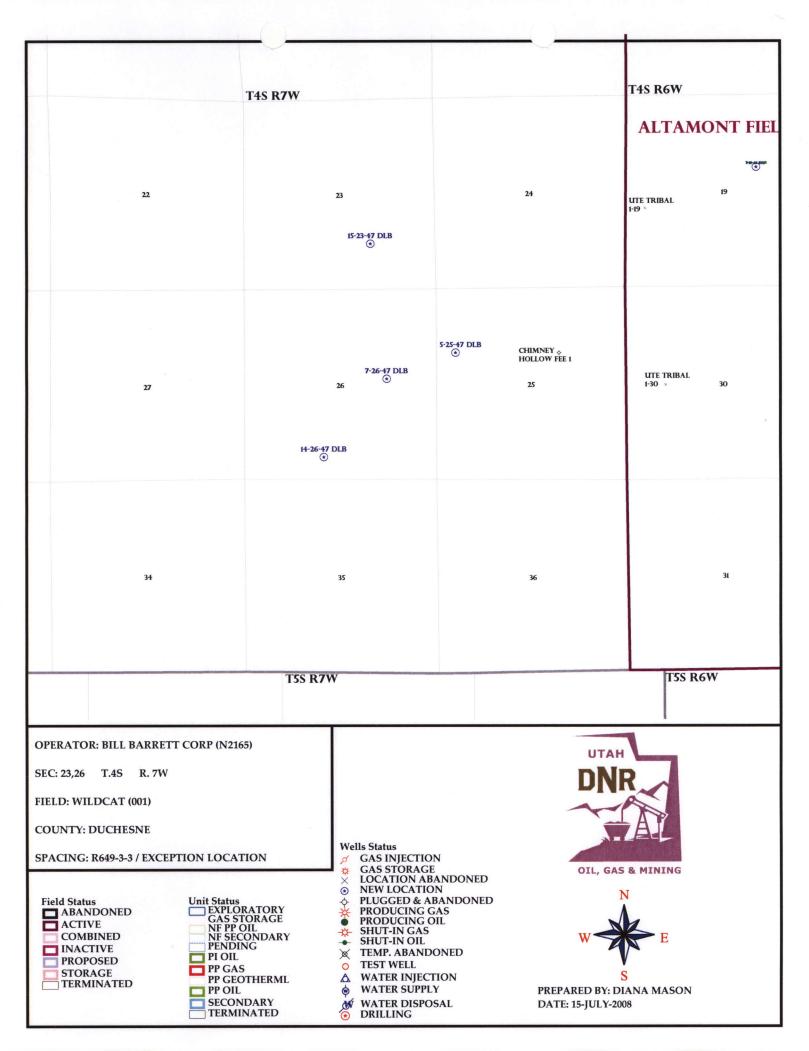








APD RECEIVED: 07/07/2008	API NO. ASSIGNED: 43-013-34024				
WELL NAME: 7-26-47 DLB  OPERATOR: BILL BARRETT CORP ( N2165 )  CONTACT: REED HADDOCK		PHONE NUMBER:	303-312-854	6	
PROPOSED LOCATION:		INSPECT LOCATN	BY: /	/	
SWNE 26 040S 070W SURFACE: 2472 FNL 1354 FEL		Tech Review	Initials	Date	
BOTTOM: 2472 FNL 1354 FEL		Engineering			
COUNTY: DUCHESNE		Geology			
LATITUDE: 40.10439 LONGITUDE: -110.6375  UTM SURF EASTINGS: 530897 NORTHINGS: 44391	.96	Surface			
FIELD NAME: UNDESIGNATED ( 2			<u> </u>		
LEASE TYPE: 2 - Indian  LEASE NUMBER: 14-20-H62-5500  SURFACE OWNER: 2 - Indian		PROPOSED FORMAT		RN	
Plat  Bond: Fed[] Ind[2] Sta[] Fee[]  (No. WYB000040 )  Potash (Y/N)  Oil Shale 190-5 (B) or 190-3 or 190-13  Water Permit  (No. MUNICIPAL )  RDCC Review (Y/N)  (Date: )  MAP Fee Surf Agreement (Y/N)  AND Intent to Commingle (Y/N)	R( Unit: R(	ON AND SITING:  649-2-3.  649-3-2. Gener iting: 460 From Qt 649-3-3. Excep rilling Unit Board Cause No: Eff Date: Siting:  649-3-11. Dire	al r/Qtr & 920' E tion	Between Wells	
STIPULATIONS:	De prov (				
2-Space	ny otiv				





July 10, 2008

Utah Division of Oil, Gas and Mining P.O. Box 145801 1594 West North Temple, Suite 1210 Salt Lake City, Utah 84114-5801

Re: Cultural Resource Inventory for # 5-25-47 DLB; 15-23-47 DLB; 7-26-47 DLB; and 14-26-47 DLB

Tribal Surface/Tribal Minerals Sections 23, 25, 26, T4S-R7W Duchesne County, Utah

Diana Mason, Environmental Scientist I:

Haddock

Enclosed please find a copy of Montgomery Archeological Consultants Class III archeological survey for the above mentioned locations. No cultural resources were located on these sites. The four (4) APD's were submitted under a separate cover dated July 3, 2008.

Please contact me at (303) 312-8546 if you need anything additional or have any questions.

Sincerely,

Reed Haddock Permit Analyst

**Enclosures** 

1099 18TH STREET
SUITE 2300
DENVER, CO 80202
P 303.293.9100
F 303.291.0420

RECEIVED

JUL 1 4 2008

DIV. OF OIL, GAS & MINING

CULTURAL RESOURCE INVENTORY OF BILL BARRETT CORPORATION'S PROPOSED WELL LOCATIONS: 15-23-47 DLB, 5-25-47 DLB, 7-26-47 DLB, AND 14-26-47 DLB, DUCHESNE COUNTY, UTAH

## CULTURAL RESOURCE INVENTORY OF BILL BARRETT CORPORATION'S PROPOSED WELL LOCATIONS: 15-23-47 DLB, 5-25-47 DLB, 7-26-47 DLB, AND 14-26-47 DLB, DUCHESNE COUNTY, UTAH

By:

Jacki A. Montgomery

Prepared For:

Ute Indian Tribe
Uintah and Ouray Agency

**Prepared Under Contract With:** 

Bill Barrett Corporation 1099 18<sup>th</sup> Street, Suite 2300 Denver, CO 80202

Prepared By:

Montgomery Archaeological Consultants, Inc. P.O. Box 219 Moab, Utah 84532

MOAC Report No. 08-149

July 7, 2008

United States Department of Interior (FLPMA)
Permit No. 08-UT-60122

State of Utah Antiquities Project (Survey)
Permit No. U-08-MQ-0562i

Ute Tribal Permit No. A08-363

#### INTRODUCTION

A cultural resource inventory was conducted by Montgomery Archaeological Consultants, Inc. (MOAC) in July 2008 for Bill Barrett Corporation's (BBC) proposed 15-23-47 DLB, 5-25-47 DLB, 7-26-47 DLB and 14-26-47 DLB well locations with associated access corridors. The project area is located in Bowen Canyon, southwest of the town of Duchesne, Duchesne County, Utah. The survey was implemented at the request of Mr. Reed Haddock, Bill Barrett Corporation, Denver, Colorado. The project is situated on Ute Tribal land (Uintah and Ouray Agency).

The objective of the inventory was to locate, document, and evaluate any cultural resources within the project area in order to comply with Section 106 of 36 CFR 800, the National Historic Preservation Act of 1966 (as amended). Also, the inventory was implemented to attain compliance with a number of federal and state mandates, including the National Environmental and Policy Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979, the American Indian Religious Freedom Act of 1978, and the Utah State Antiquities Act of 1973 (amended 1990).

The fieldwork was performed on June 16, 2008 by Mark Lane (Field Supervisor). Prior to the survey, MOAC acquired permission from Bruce Pargeets (Ute Energy & Minerals Technician Supervisor) to proceed. The inventory was conducted under the auspices of U.S.D.I. (FLPMA) Permit No. 08-UT-60122, State of Utah Antiquities Permit (Survey) No. U-08-MQ-0562i, and Ute Tribal Permit No. A08-363 issued to Montgomery Archaeological Consultants, Moab, Utah.

A file search for previous archaeological projects and cultural resources was conducted by Marty Thomas at the Division of State History, Salt Lake City, on June 13, 2008. This consultation indicated that several cultural resource inventories have been conducted in the vicinity of the current project area. In 2005, MOAC completed an inventory of Bill Barrett Corporation's Lake Canyon 3D seismic program (Montgomery and Freudenberg 2005). The inventory resulted in the documentation of seven historic sites (42Dc2035-42Dc2041) consisting of homesteads, habitations, a temporary camp, and trash scatters; none of which occur within the current project area. In 2006, MOAC conducted a cultural resource inventory of Bill Barrett Corporation's seven proposed Lake Canyon well locations, which resulted in the documentation of no sites (Montgomery In 2006, URS Corporation performed an intensive cultural resource inventory of approximately 800 acres for Berry Petroleum Corporation in the Lake Canyon area (Tucker 2007). Several sites were documented including the historic Deerhorn No. 1 Gilsonite Mine (42Dc2260) that is situated outside of the current inventory area. In 2007, MOAC inventoried BBC's five proposed well locations in Township 4S, Range 6W Sections 20 and 21 resulting in no cultural resources (Jendresen 2007). In 2007, An Independent Archaeologist (AIA) surveyed Lake Canyon Tribal M-19D-46 well location in Township 4S, Range 6W, Sections 19 and 30; no cultural resources were located (Truesdale 2007).

#### DESCRIPTION OF PROJECT AREA

The project area lies south of the Strawberry River in Bowen Canyon, Duchesne County, Utah. The legal description is Township 4 South, Range 6 West, Sections 13, 23, 24, 26, and 35 (Table 1, Figure 1).

Table 1. BBC's Four Proposed Well Locations

Well Designation	Legal Location	Access/Pipeline	Cultural Resources
15-23-47 DLB	T4S, R7W, S. 23 NW/SE	Access: 892 ft	None
5-25-47 DLB	T4S, R7W, S. 25 SW/NW	Access: 3864 ft	None
7-26-47 DLB	T4S, R7W, S. 26 NW/SE	Access: 3752 ft	None
14-26-47 DLB	T4S, R7W, S. 26 SE/SW	Access: 6487 ft	None
Bowen Canyon Access Route	T4S, R7W, S. 13, 23, 24, 26, 35	Access: 3.6 miles	42Dc2461

#### **Environmental Setting**

The project area lies within the Uinta Basin physiographic unit, a distinctly bowl-shaped geologic structure (Stokes 1986:231). The Uinta Basin ecosystem is within the Green River drainage, and is the northernmost extension of the Colorado Plateau. Geologically, the area consists of the Tertiary age Uinta formation, which is basically "gravel, sand, and silt washed south off the Uinta Mountains" (Chronic 1990:45). The area is characterized by steep-sided narrow ridges and benches dissected by intermittent drainages. Outcrops of the Uinta formation are characterized by a dense dendritic drainage pattern and topographic relief. This Eocene-age formation occurs as fluvial deposited interbedded sandstone and mudstone and is well-known for its fossil vertebrates.

Specifically, the project area lies along Bowen Canyon south of the Strawberry River. The elevation ranges from 5900 to 7600 ft asl. The project area is in the Upper Sonoran lifezone and vegetation includes pinyon-juniper, sagebrush, rabbitbrush, shadscale, Indian ricegrass, prickly pear, Indian paintbrush, and barrel cactus. Modern impacts include ranching activities, roads, recreational activities, and oil and gas development. Additionally, the area was mined for gilsonite and asphalt beginning at the turn of the twentieth century.

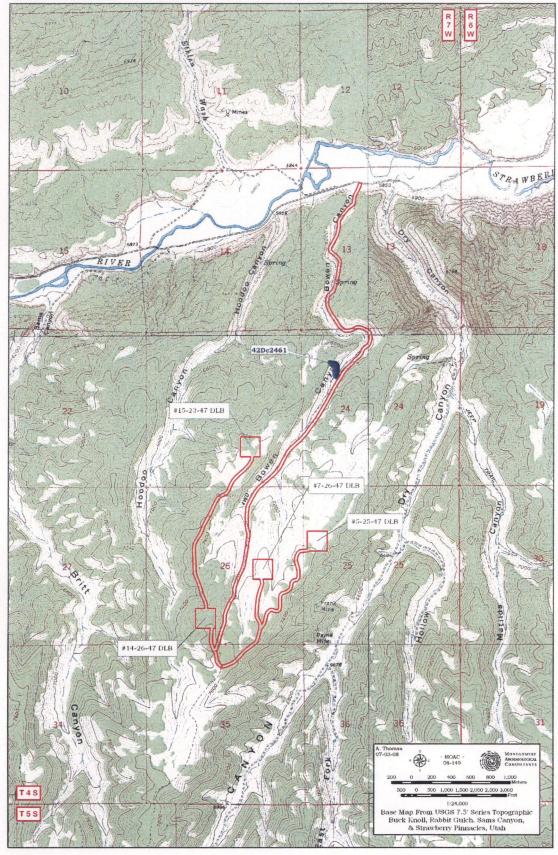


Figure 1. BBC's Proposed 15-23-47 DLB, 5-25-47 DLB, 7-26-47 DLB and 14-26-47 DLB Well Locations Duchesne County, Utah.

#### SURVEY METHODOLOGY

An intensive pedestrian survey was performed for this project which is considered 100% coverage. At the proposed well locations a 10 acre parcel was identified, centered on the well pad center stake. The locations were then surveyed by the archaeologist walking parallel transects spaced no more than 10 m (33 ft) apart. The proposed access corridors were surveyed to a width of 30 m (100 ft) employing the same methods. Ground visibility was considered fair. A total of 115.4 acres was surveyed for cultural resources on Ute Tribal lands (Uintah and Ouray Agency).

#### INVENTORY RESULTS

The inventory of Bill Barrett Corporation's proposed four well locations with access routes resulted in the documentation of a historic site (42Dc2461).

Smithsonian Site No.: 42Dc2461
Temporary Site No.: 08-149 ML-01
NRHP Eligibility: Eligible, Criterion A

Description: This is an abandoned gilsonite mine situated in Bowen Canyon along the west side of the road. The mine shaft (Feature C) is a collapsed gilsonite mine and associated tailings pile measuring 60 ft L x 10 ft W x 4 ft D. Remnants of axe cut and notched logs used in cribbing and shoring are protruding from the shaft as well as scattered on the ground. Three dilapidated features occur at the site, all of unknown function. Feature A is a rectangular axe cut log structure (19 ft L x 7 ft W) consisting of a single course of logs secured with round metal spikes. Feature B is an axe cut log platform (5 ft x 5 ft) consisting of 10 decayed logs, most of which are displaced. Feature D is an axe cut log structure (8 ft L x 6 ft W) defined by a single intact course of logs around an interior depression. Cultural materials include a metal and wood wagon part, approximately 50 milled wood fragments, four metal can lids, a square can lid embossed "FOLGERS TEAS", several wire nails, and a ceramic sherd (tea cup?). Glass artifacts consist of one aqua canning jar, one aqua liquor bottle, and one amethyst bottle base. Tin cans on the site consist of 15 sanitary food cans (two embossed SANITARY), 15 hole in top milk cans, three hole in cap food cans, and two pocket tobacco cans. The oldest date is derived from hole in cap cans (1885–1903) and cans embossed "SANITARY" (1904-1908). The recent date is represented by hole in top milk cans which date 1915-1930. This mine may be associated with the Raven Mining Company which acquired numerous gilsonite mining claims beginning in 1902 from the federal government on the Uintah Indian Reservation. This resulted in the shipment of over 20 million pounds of gilsonite from the area.

#### NATIONAL REGISTER OF HISTORIC PLACES EVALUATION

The National Register Criteria for Evaluation of Significance and procedures for nominating cultural resources to the National Register of Historic Places (NRHP) are outlined in 36 CFR 60.4 as follows:

The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of State and local importance that possess integrity of location, design, setting, material, workmanship, feeling, and association, and that they:

- a)...are associated with events that have made a significant contribution to the broad patterns of our history; or
- b)...are associated with the lives of persons significant to our past; or
- c)...embody the distinctive characteristics of a type, period, or method of construction; or that represents the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- d)...have yielded or may be likely to yield information important in prehistory or history.

The inventory resulted in the documentation of a historic site (42Dc2461). This is an abandoned gilsonite mine and camp dating to the early 1900s. The structural features and mine shaft exhibit very minimal integrity and the artifacts are limited in diversity. The only intrusive feature is the collapsed mine shaft that lacks evidence of cultural materials apart from shoring timbers. The site does not represent persons significant to the history of the area (Criterion B), nor does it embody the distinctive characteristics of a type, period, or method of construction (Criterion C). Site 42Dc2461 is recommended eligible to the NRHP under Criterion A because the mine is associated with opening the Uintah Indian Reservation to mining, an important local event.

#### MANAGEMENT RECOMMENDATIONS

The inventory of Bill Barrett Corporation's proposed 15-23-47 DLB, 5-25-47 DLB, 7-26-47 DLB and 14-26-47 DLB well locations with access routes resulted in the documentation of a gilsonite mine (42Dc2461). This site is evaluated eligible to the NRHP under Criterion A (important to the history of the area). The improvement of the road beside this site will not alter the characteristics that qualifies site 42Dc2461 eligible to the NRHP. Therefore, based on this finding, a determination of "no adverse effect" is recommended for the undertaking pursuant to Section 106, CFR 800.

#### REFERENCES CITED

Chronic, H.

1990 Roadside Geology of Utah. Mountain Press, Missoula, Montana.

Jendresen, A.

2007

Cultural Resource Inventory of Bill Barrett Corporation's Five Proposed DLB Well Locations (T4S, R6W, Sections 20, 21, and 28), Duchesne County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Report No. U-07-MQ-0384.

Montgomery, J.A.

2006

Cultural Resource Inventory of Bill Barrett Corporation's Proposed Seven Lake Canyon Well Locations in Duchesne County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Report No. U-06-MQ-1655.

Montgomery, J.A., and K. Freudenberg

2005

Cultural Resource Inventory of Bill Barrett Corporation's Lake Canyon 3D Seismic Program, Duchesne County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Report No. U-05-MQ-0365.

Stokes, W.L.

1986

Geology of Utah. Utah Museum of Natural History and Utah Geological and Mineral Survey. Salt Lake City.

Truesdale, J.A.

2007

Cultural Resource Inventory of Berry Petroleum's Lake Canyon Tribal #M-19D-46 Well Location, Duchesne County, Utah. An Independent Archaeologist, Laramie, Wyoming. Report No. U-07-AY-951.

Tucker, G.C.

2007

Lake Canyon Project, Duchesne County, Utah: Results of an Intensive Cultural Resource Inventory. URS Corporation, Denver. Report No. U-06-UI-1538.



July 15, 2008

Ms. Diana Mason – Petroleum Technician STATE OF UTAH DIVISION OF OIL, GAS AND MINING 1594 West North Temple, Suite 1210 P. O. Box 145801 Salt Lake City, Utah 84114-5801

Re: Exception Location - #7-26-47 DLB - Lake Canyon Area

Surface Location: 1354' FEL, 2472' FNL, SWNE, Section 26-T4S-R7W

Duchesne County, Utah

Dear Ms. Mason,

Bill Barrett Corporation ("BBC") hereby submits an exception location letter in accordance with Oil & Gas Conservation Rules R649-3-3, requesting an exception well location, supported by the following information:

- The location is within our Lake Canyon Area.
- The exception location is due to topography requirements and to minimize surface disturbance.
- BBC certifies that it is the working interest owner along with Berry Petroleum Company, and together we own 100% of the working interest within 460 feet of the proposed well location.
- Our rights are owned under an Exploration and Development Agreement with the Ute Indian Tribe and Ute Distribution Corporation which provides for the drilling of exploratory wells. This agreement provides that we consult with these owners regarding the drilling of this well.

Based on the information provided, BBC requests the Division grant this exception to the locating and siting requirements of R649-3-2. Should you have any questions or need further information, please contact me at 303-312-8129.

Sincerely,

Doug Gundry-White

Senior Landman

1099 18TH STREET

SUITE 2300

DENVER, CO 80202

P 303.293.9100

F 303.291.0420

From:

**Brad Hill** 

To:

Mason, Diana

Date:

7/16/2008 8:59 AM

Subject:

Fwd: RE: Exception locations

I'd say go with it. Put a Copy of this in the file.

>>> Diana Mason 7/16/2008 8:49 AM >>> What do you think?

>>> Reed Haddock < rhaddock@billbarrettcorp.com > 7/16/2008 8:48 AM >>>

Diana: After talking to our landman he said that item # 4 states "our rights are owned under an and Exploration and Development Agreement with the Ute Indian Tribe ect...." This agreement involves Berry Petroleum and BBC. Do you still need further clarification? Reed

----Original Message-----

From: Diana Mason [mailto:dianawhitney@utah.gov]

Sent: Wednesday, July 16, 2008 8:18 AM

To: Reed Haddock

Subject: RE: Exception locations

Reed,

In this letter it does not say BBC has Berry Petroleum's consent.

#### Diana

>>> Reed Haddock < rhaddock@billbarrettcorp.com > 7/16/2008 7:23 AM >>>

Diana: Attached find an exception letter for the # 15-23-47 DLB and the # 7-26-47 DLB. The exception location letter for the 5-25-47 DLB will take a bit more time, since there is a mining claim located within 460' of the proposed location, and BBC needs to locate the owner and lease the interest before we can confirm to DOGM that we own the leasehold within a 460' radius of the location.

#### Thanks Reed

----Original Message-----

From: Diana Mason [mailto:dianawhitney@utah.gov]

Sent: Tuesday, July 15, 2008 11:23 AM

To: Reed Haddock

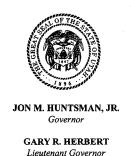
Subject: Exception locations

Hi Reed,

I need an exception location letter for the 15-23-47 DLB, 7-26-47 DLB and 5-25-47 DLB,

Thanks,

Diana





MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA Division Director

July 16, 2008

Bill Barrett Corporation 1099 18th St., Ste. 2300 Denver, CO 80202

Re:

7-26-47 DLB Well, 2472' FNL, 1354' FEL, SW NE, Sec. 26, T. 4 South, R. 7 West,

Duchesne County, Utah

#### Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-34024.

Sincerely,

Gil Hunt

Associate Director

pab Enclosures

cc:

**Duchesne County Assessor** 

Bureau of Land Management, Vernal Office



Operator:	Bill Barrett Corporation				
Well Name & Number	7-26-47 DLB				
API Number:	43-013-34024				
Lease:	14-20-H62-550	0			
Location: <u>SW NE</u>	<b>Sec.</b> <u>26</u>	<b>T.</b> <u>4 South</u>	<b>R.</b> <u>7 West</u>		

## **Conditions of Approval**

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the division within 24 hours of spudding the well.

• Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

• Contact Dustin Doucet at (801) 538-5281 (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

STATE OF UTAH  DEPARTMENT OF NATURAL RESOURCES  DIVISION OF OIL, GAS AND MINING					FORM 9	
					DESIGNATION AND SERIAL NUMBER: 20-H62-5500	
SUNDRY	NOTICES AND REPORTS	S ON WEL	LS	1	N, ALLOTTEE OR TRIBE NAME: NDIAN TRIBE	
Do not use this form for proposals to drill no drill horizontal la	ew wells, significantly deepen existing wells below cun terals. Use APPLICATION FOR PERMIT TO DRILL fo	rent bottom-hole de orm for such propos	pth, reenter plugged wells, or to als.	7. UNIT or	CA AGREEMENT NAME:	
1. TYPE OF WELL OIL WELL	GAS WELL OTHER				AME and NUMBER: 47 DLB	
2. NAME OF OPERATOR: BILL BARRETT CORPOR	ATION			9. API NUM 43013		
3. ADDRESS OF OPERATOR: 1099 18TH Street, Ste 2300 CHY	Denver STATE CO ZIP	80202	PHONE NUMBER: (303) 312-8168	10. FIELD	AND POOL, OR WILDCAT: MONT	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2472	FNL, 1354¹ FWL			COUNTY:	DUCHESNE	
QTR/QTR, SECTION, TOWNSHIP, RAN	GE, MERIDIAN: SWNE 26 T4S F	R7W		STATE:	UTAH	
11. CHECK APPE	ROPRIATE BOXES TO INDICAT	E NATURE	OF NOTICE, REPO	RT, OR	OTHER DATA	
TYPE OF SUBMISSION			TYPE OF ACTION			
NOTICE OF INTENT	ACIDIZE	DEEPEN		RE	PERFORATE CURRENT FORMATION	
(Submit in Duplicate)	ALTER CASING	FRACTUR	E TREAT	Sit	DETRACK TO REPAIR WELL	
Approximate date work will start:	CASING REPAIR	NEW CON	STRUCTION	TE	MPORARILY ABANDON	
	CHANGE TO PREVIOUS PLANS	OPERATO	R CHANGE	☐ TU	BING REPAIR	
	CHANGE TUBING	PLUG AND	) ABANDON		NT OR FLARE	
SUBSEQUENT REPORT	CHANGE WELL NAME	PLUG BAC	:K	Πw	ATER DISPOSAL	
(Submit Original Form Only)	CHANGE WELL STATUS	PRODUCT	ION (START/RESUME)	⊢ w	ATER SHUT-OFF	
Date of work completion:	COMMINGLE PRODUCING FORMATIONS	_	TION OF WELL SITE		HER: APD EXTENSION	
	CONVERT WELL TYPE	——————————————————————————————————————	ETE - DIFFERENT FORMATION	<b>W</b>	HER. MI D EXTENSION	
12. DESCRIBE PROPOSED OR CO	DMPLETED OPERATIONS. Clearly show all p	pertinent details i	ncluding dates, depths, volum	nes, etc.		
	RATION (BBC) REQUESTS AN A IAL APD WAS APPROVED ON J			NSION OI	N THE APD FOR THIS	
	1 Ital	roved by to Division as and Mi	Of			
	Date:	7-20-	911	COP	Y SENT TO OPERATOR	

NAME (PLEASE PRINT) Matt Barber

TLE Permit Analyst

SIGNATURE Matt Barber

7/14/2009

(This space for State use only)

RECEIVED

Initials:

JUL 1 6 2009



# Application for Permit to Drill Request for Permit Extension Validation

(this form should accompany the Sundry Notice requesting permit extension)

Vell Name: #7-26-47 DLB Location: SWNE, Sec. 26, T4S-R7W Company Permit Issued to: Bill Barrett Corporation Date Original Permit Issued: 7/16/2008	
The undersigned as owner with legal rights to drill on the labove, hereby verifies that the information as submitted approved application to drill, remains valid and does not	d in the previously
Following is a checklist of some items related to the apprecified.	plication, which should be
f located on private land, has the ownership changed, agreement been updated? Yes□No☑	if so, has the surface
Have any wells been drilled in the vicinity of the proposite he spacing or siting requirements for this location? Ye	
Has there been any unit or other agreements put in pla permitting or operation of this proposed well? Yes□ No	
Have there been any changes to the access route inclord- of-way, which could affect the proposed location? Yes	
las the approved source of water for drilling changed	? Yes□No☑
Have there been any physical changes to the surface by which will require a change in plans from what was disevaluation? Yes□No☑	
s bonding still in place, which covers this proposed we	ell? Yes☑No□
Matt Bailing Signature	7/14/2009 Date
Title: Permit Analyst	RECEIVED
Representing: Bill Barrett Corporation	JUL 1 6 2009  DIV OF OIL, GAS & MINING

Form 3160-3 (April 2004)				OMB N	APPROVED To. 1004-0137 March 31, 2007	
UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN	5. Lease Serial No. 20G0005500		_			
APPLICATION FOR PERMIT TO	6. If Indian, Allotee UTE INDIAN		_			
la. Type of work:  DRILL  REENTE	ER			7. If Unit or CA Agr N/A	eement, Name and No.	-
lb. Type of Well: Oil Well Gas Well Other	Sin	ngle Zone  Multip	ole Zone	8. Lease Name and # <b>7-26-47 DL</b> 1		_
2. Name of Operator BILL BARRETT CORPORATION				9. API Well No.  Pending	3.013-34024	/
3a. Address 1099 18th Street, Suite 2300 Denver CO 80202		(include area code) 12-8168		10. Field and Pool, or Altamont	Exploratory	
4. Location of Well (Report location clearly and in accordance with any At surface SWNE, 2472' FNL, 1354' FEL At proposed prod. zone SWNE, 2472' FNL, 1354' FEL	y State requirem	ents.*)			Blk. and Survey or Area S-R7W U.S.B.&M.	
14. Distance in miles and direction from nearest town or post office*  Approximately 19.9 miles southwest of Duchesne, Utah				12. County or Parish  Duchesne	13. State UT	_
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  1354'	16. No. of a	cres in lease	40	g Unit dedicated to this	well	_
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  2,500' Applied for loc.	19. Proposed <b>8497</b> '	l Depth		BIA Bond No. on file onwide Bond #WYB000040		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7438' ungraded ground	22. Approxi	nate date work will star 09/15/2008	rt*	23. Estimated duration 45 days	on	_
The following, completed in accordance with the requirements of Onshor	24. Attac		ttached to the	is form:	·	-
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>		Bond to cover the litem 20 above).     Operator certification.	he operation cation specific info	ns unless covered by ar	n existing bond on file (see	e —
25. Signature Matt Balun	I	(Printed/Typed) Matt Barber			Date 02/17/2010	_
Title Permit Analyst						
Approved by (Signapure)	Name Ja	(Printed/Typed) Mes H.	Spa	arger	MAR 14 2	201
Title ACTING Lands & Mineral Resources	Office	VERN	<u> </u>	ELD OFFICE		_
Application approval does not warrant or certify that the applicant hold conduct operations thereon.  Conditions of approval, if any, are attached.	s legal or equi	table title to those righ	ts in the sub	ject lease which would	entitle the applicant to	_
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr States any false, fictitious or fraudulent statements or representations as t			willfully to m	nake to any department	or agency of the United	<del>-</del>

\*(Instructions on page 2)

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UDOG/Y)
NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED



# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

VERNAL, UT 84078

(435) 781-4400



# CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:

**Bill Barrett Corporation** 

Well No: API No: 7-26-47 DLB 43-013-34024 Location:

**SWNE, Sec.26, T4S R7W** 

Lease No:

20G0005500

Agreement:

N/A

**OFFICE NUMBER:** 

(435) 781-4400

OFFICE FAX NUMBER:

(435) 781-3420

# A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

# **NOTIFICATION REQUIREMENTS**

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut vn opreport@blm.gov.
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 7 Well: 7-26-47 DLB 2/16/2010

# SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

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#### SITE SPECIFIC CONDITIONS OF APPROVAL

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• A 23,240' by 30' corridor access road right-of-way shall be approved.

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- Qualified surveyors/engineers shall be accompanied by a Tribal Technician, and will monitor all construction of the proposed action.
- The Ute Tribe Energy & Minerals Department is to be notified 48 hours prior to construction of the proposed action.
- Notices are to be given to the Ute Tribe Energy and Minerals Department during their normal workdays, which are Monday through Friday, 8:00 AM to 4:30 PM. The company understands that they may be held responsible for costs incurred by improper notification.
- The Company shall inform contractors to maintain construction of projects within the approved Rights-Of-Way.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe
  and BIA in writing and will receive written authorization of any such change with appropriate
  authorization of any such change.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- The company will ensure that there is approved APD and ROW and/or an Authority to Construct letter for proof of construction authorization.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel should refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- If artifacts, fossils, or any culturally sensitive materials are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.

Page 3 of 7 Well: 7-26-47 DLB 2/16/2010

 Upon completion of the right-of-way the company will notify the Ute Tribe Energy and Minerals Department and BIA so that an Affidavit of Completion may be implemented.

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Page 4 of 7 Well: 7-26-47 DLB 2/16/2010

# DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### SITE SPECIFIC CONDITIONS OF APPROVAL

- Production casing cement shall be brought up and into the surface casing. The minimum cement top is 200 ft above the surface casing shoe. Production casing minimum cement top is 0650 ft.
- A cement Bond Log (CBL) shall be run from the production casing shoe to the top of cement. A
  field copy of the CBL shall be submitted to the BLM Vernal Field Office.
- Logging: A Gamma Ray well Log shall be run from the well Total Depth to the surface.
   A copy of the Gamma Ray well Log shall be submitted to the BLM Vernal Field Office.
- All blow back fluids from completion operations shall be contained in such a manner that no oil reaches the reserve pit.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the
  daily drilling report. Components shall be operated and tested as required by Onshore Oil &
  Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be
  performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be
  reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.



Page 5 of 7 Well: 7-26-47 DLB 2/16/2010

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water
  is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM
  Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
   Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum
   Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.



Page 6 of 7 Well: 7-26-47 DLB 2/16/2010

#### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
  notified when it is placed in a producing status. Such notification will be by written
  communication and must be received in this office by not later than the fifth business day
  following the date on which the well is placed on production. The notification shall provide, as a
  minimum, the following informational items:
  - o Operator name, address, and telephone number.

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Well name and number.

DIV. OF OIL, GAS & MINING

- o Well location (¼¼, Sec., Twn, Rng, and P.M.).
- Date well was placed in a producing status (date of first production for which royalty will be paid).
- o The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
- The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
- Unit agreement and/or participating area name and number, if applicable.
- o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

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Page 7 of 7 Well: 7-26-47 DLB 2/16/2010

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field
  Office Petroleum Engineers will be provided with a date and time for the initial meter calibration
  and all future meter proving schedules. A copy of the meter calibration reports shall be
  submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API
  standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All
  measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted
  to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs
  first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be
  adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively
  sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior
  approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
  days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
  before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH		FORM 9			
	5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-5500				
SUNDF	RY NOTICES AND REPORTS O	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE		
	sals to drill new wells, significantly deepen ex agged wells, or to drill horizontal laterals. Use		7.UNIT or CA AGREEMENT NAME:		
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 7-26-47 DLB		
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013340240000		
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300, D	Denver, CO, 80202 303 312	PHONE NUMBER: -8128 Ext	9. FIELD and POOL or WILDCAT: UNDESIGNATED		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2472 FNL 1354 FEL			COUNTY: DUCHESNE		
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SWNE Section: 26	IP, RANGE, MERIDIAN: Township: 04.0S Range: 07.0W Meridian: U	ı	STATE: UTAH		
11. CHE	CK APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPORT,	OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
	ACIDIZE [	ALTER CASING	☐ CASING REPAIR		
NOTICE OF INTENT Approximate date work will start: 5/6/2010	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
3,0,2010	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	L DEEPEN L	FRACTURE TREAT	☐ NEW CONSTRUCTION		
	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	☐ PLUG AND ABANDON	☐ PLUG BACK		
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION		
Date of Spud:	☐ TUBING REPAIR	SIDETRACK TO REPAIR WELL VENT OR FLARE	☐ TEMPORARY ABANDON ☐ WATER DISPOSAL		
	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION		
DRILLING REPORT Report Date:		_			
			OTHER:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  BILL BARRETT CORPORATION (BBC) REQUESTS AN ADDITIONAL ONE-YEAR EXTENSION ON THE APD FOR THIS LOCATION. THE ORGINAL APD WAS APPROVED ON 07/16/2008, THE PREVIOUS PERMIT EXTENSION EXPIRES ON 07/16/2010.  Utah Division of Oil, Gas and Mining					
Date: May 10, 2010					
		_			
NAME (PLEASE PRINT) Matt Barber	PHONE NUMBER	TITLE Permit Analyst			
SIGNATURE	303 312-8168	DATE			
N/A		5/6/2010			



## The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

## Request for Permit Extension Validation Well Number 43013340240000

**API:** 43013340240000 Well Name: 7-26-47 DLB

Location: 2472 FNL 1354 FEL QTR SWNE SEC 26 TWNP 040S RNG 070W MER U

Company Permit Issued to: BILL BARRETT CORP

**Date Original Permit Issued:** 7/16/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that requ

information as submitted in the uire revision. Following is a chec	previously approved application klist of some items related to the	to drill, remains valid and does not e application, which should be verified.
• If located on private land, has updated? Yes No	the ownership changed, if so, h	as the surface agreement been
Have any wells been drilled in siting requirements for this lo		l which would affect the spacing or
<ul> <li>Has there been any unit or oth of this proposed well? </li> </ul>		could affect the permitting or operation
<ul> <li>Have there been any changes affect the proposed location?</li> </ul>		nership, or rightof- way, which could
• Has the approved source of wa	ater for drilling changed? 🥘 Y	es 📵 No
	changes to the surface location of the changes to the surface location of the change o	or access route which will require a tion? 📵 Yes 📵 No
• Is bonding still in place, which	covers this proposed well?	Approved by the Yes No Utah Division of Oil, Gas and Mining
nature: Matt Barber D	Pate: 5/6/2010	
Title: Permit Analyst Represent	ing: BILL BARRETT CORP	Date: May 10, 2010
	-	R. Decentil

Sig

Sundry Number: 16416 API Well Number: 43013340240000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES		FORM 9
	<b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-5500		
SUNDF	RY NOTICES AND REPORTS (	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
	sals to drill new wells, significantly deepen e ugged wells, or to drill horizontal laterals. Us		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 7-26-47 DLB
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013340240000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , D		E NUMBER: 2-8164 Ext	9. FIELD and POOL or WILDCAT: UNDESIGNATED
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2472 FNL 1354 FEL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SWNE Section: 26	IP, RANGE, MERIDIAN: Township: 04.0S Range: 07.0W Meridian: U	J	STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPORT	Γ, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
_	☐ ACIDIZE [	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	☐ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	☐ CHANGE WELL NAME
3/1/2012	☐ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN [	FRACTURE TREAT	☐ NEW CONSTRUCTION
Date of Work Completion:	☐ OPERATOR CHANGE	PLUG AND ABANDON	☐ PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	☐ TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	□ WATER SHUTOFF [	SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date:	■ WILDCAT WELL DETERMINATION [	OTHER	OTHER:
12 DESCRIPE PROPOSED OR CO	DMPLETED OPERATIONS. Clearly show all perti		<u> </u>
BILL BARRETT CORF	PORATION (BBC) REQUESTS AN APD FOR THIS LOCATION DUE 2011/2012 YEAR. THE PREVIOL	N ADDITIONAL ONE-YEA TO CHANGES IN DRILLI JS PERMIT EXTENSION	R
	EXPIRES ON JULY 16TH, 20:	11.	Oil, Gas and Mining
			Date: 07/11/2011
			2 00 cm
			BA: Trea Chin
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE	
Brady Riley	303 312-8115	Permit Analyst	
SIGNATURE N/A		<b>DATE</b> 7/6/2011	

Sundry Number: 16416 API Well Number: 43013340240000



### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

## Request for Permit Extension Validation Well Number 43013340240000

**API:** 43013340240000 **Well Name:** 7-26-47 DLB

Location: 2472 FNL 1354 FEL QTR SWNE SEC 26 TWNP 040S RNG 070W MER U

Company Permit Issued to: BILL BARRETT CORP

**Date Original Permit Issued:** 7/16/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

<ul> <li>If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No</li> </ul>
<ul> <li>Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?</li> <li>Yes</li> <li>No</li> </ul>
<ul> <li>Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?</li> <li>Yes</li> <li>No</li> </ul>
<ul> <li>Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?</li> <li>Yes</li> <li>No</li> </ul>
• Has the approved source of water for drilling changed? 🔘 Yes 📵 No
<ul> <li>Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?</li> <li>Yes</li> <li>No</li> </ul>
• Is bonding still in place, which covers this proposed well?   Yes   No

**Signature:** Brady Riley **Date:** 7/6/2011

Title: Permit Analyst Representing: BILL BARRETT CORP

Form 3160-5 (August 2007)

# **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS JAN 2 0 2012 not use this form for proposals to drill and the sun of the s

5. Lease Serial No. 2OG0005500

abandoned we	ell. Use form 3160-3 (APD) fo	or to re- or such p	enter an roposals:	31 V	<b>/</b>	6. If Indian, Allottee o UINTAH AND O	r Tribe Name URAY	
SUBMIT IN TRIPLICATE - Other instructions on re						7. If Unit or CA/Agree	ement, Name and	d/or No.
1. Type of Well		·		··		8. Well Name and No.		
☑ Oil Well ☐ Gas Well ☐ Other						7-26-47 DLB		
Name of Operator     BILL BARRETT CORPORATION		billbarrettc	orp.com			9. API Well No. 43-013-34024-0	10-X1	
3a. Address 1099 18TH STREET SUITE 2 DENVER, CO 80202	2300   Ph   Fx	. Phone No. n: 303-312 c: 303-291	2-8172	a code)		10. Field and Pool, or ALTAMONT	Exploratory	
4. Location of Well (Footage, Sec., 7						<ol> <li>County or Parish, a</li> </ol>	and State	
Sec 26 T4S R7W SWNE 247	2FNL 1354FEL	•				DUCHESNE CO	OUNTY, UT	
10 CITECIA DE	DODDY LINE DOTYCE CO.						····	<u>.</u>
12. CHECK APPI	ROPRIATE BOX(ES) TO IN	DICATE	NATURE	OF NO	OTICE, REF	PORT, OR OTHEI	R DATA	
TYPE OF SUBMISSION		. \	TY	PE OF A	ACTION			
Notice of Intent	☐ Acidize	□ Deep	en		□ Productio	n (Start/Resume)	☐ Water Sh	ut-Off
_	☐ Alter Casing	□ Fract	ure Treat		☐ Reclamati	ion	☐ Well Inte	grity
☐ Subsequent Report	☐ Casing Repair	□ New	Construction	on	☐ Recomple	ete	Other Change to C	
Final Abandonment Notice	Change Plans	□ Plug	and Aband	on	☐ Temporar	ily Abandon	Change to C	)riginal
	Convert to Injection	□ Plug	Back		□ Water Dis	sposal		
BBC hereby requests a two ye This well is currently schedule	ear extension for the subject And to spud in 2012.  OF APPROVAL ATTACHE	:n	RECE MAR 2 OF OIL, G.	EIVE 7 201	D 2	VERNAL FIEL ENG. WH GEOL. E.S. PET.	DOFFICE	
14 15 alice estimates		· .			1007	RECL.		
14. I hereby certify that the foregoing is	Fire and correct.  Electronic Submission #1288  For BILL BARRET  mitted to AFMSS for processing	T CORPOR	RATION, se	ent to the	e Vernal	-		
Name (Printed/Typed) VENESSA	A LANGMACHER		Title SE	ENIOR I	PERMIT AN	ALYST		
Signature (Electronic S				/20/201			,	
	THIS SPACE FOR F	EDERAI	ORST	ATE O	FFICE USE			
Approved By			Title L	Assista ands &	int Field Ma Mineral Res	nager Sources	MAR 1 3	2012
Conditions of approval, if any, are attache certify that the applicant holds legal or equivalent would entitle the applicant to conductive the applicant to conduct the applicant the applic	uitable title to those rights in the subjuct operations thereon.	ject lease	Office		/ERNAL F	FIELD OFFICE	1/	
Fitle 18 U.S.C. Section 1001 and Title 43 States and a ditious or fraudulent	U.S.C. Section 1212, make it a crim statements or representations as to an	ne for any pe ny matter wi	rson knowin thin its juriso	gly and w	illfully to mak	e to any department or	agency of the U	nited

# **CONDITIONS OF APPROVAL**

# **Bill Barrett Corporation**

# **Notice of Intent APD Extension**

Lease:

2OG0005500

Well:

7-26-47 DLB

Location:

NESW Sec 26-T4S-R7W

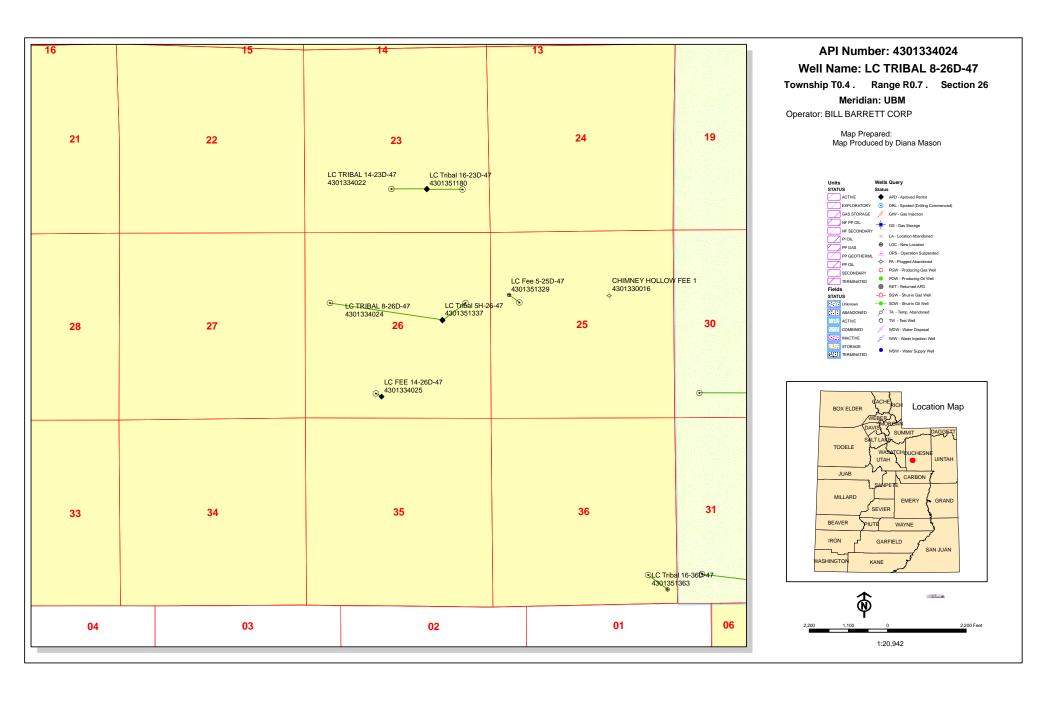
An extension for the referenced APD is granted with the following conditions:

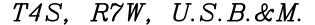
- 1. The extension and APD shall expire on 03/14/2014.
- 2. No other extension shall be granted.

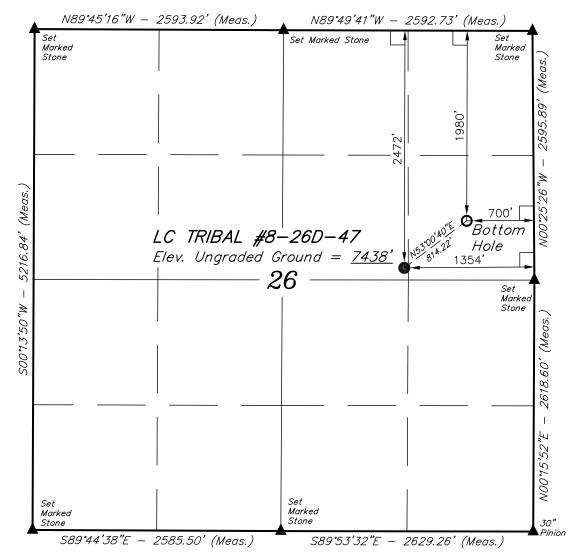
If you have any other questions concerning this matter, please contact Robin L Hansen of this office at (435) 781-2777

Sundry Number: 24259 API Well Number: 43013340240000 FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE	CES.	FORM 9		
	5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-5500				
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE				
Do not use this form for pro current bottom-hole depth, FOR PERMIT TO DRILL form	oposals to drill new wells, significantly reenter plugged wells, or to drill horizon for such proposals.	deepen existing wells below ntal laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME:		
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: LC TRIBAL 8-26D-47		
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013340240000		
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8164 Ext	9. FIELD and POOL or WILDCAT: WILDCAT		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2472 FNL 1354 FEL			COUNTY: DUCHESNE		
QTR/QTR, SECTION, TOWNSI	<b>HIP, RANGE, MERIDIAN:</b> 26 Township: 04.0S Range: 07.0W Meri	dian: U	STATE: UTAH		
11. CHEC	K APPROPRIATE BOXES TO INDICAT	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
NOTICE OF INTENT Approximate date work will start: 7/1/2012	☐ ACIDIZE  ✓ CHANGE TO PREVIOUS PLANS	ALTER CASING CHANGE TUBING	☐ CASING REPAIR  ✓ CHANGE WELL NAME		
SUBSEQUENT REPORT Date of Work Completion:	CHANGE WELL STATUS      DEEPEN      OPERATOR CHANGE	COMMINGLE PRODUCING FORMATIONS  FRACTURE TREAT  PLUG AND ABANDON	☐ CONVERT WELL TYPE ☐ NEW CONSTRUCTION ☐ PLUG BACK		
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION	RECLAMATION OF WELL SITE SIDETRACK TO REPAIR WELL	RECOMPLETE DIFFERENT FORMATION  TEMPORARY ABANDON		
DRILLING REPORT Report Date:	TUBING REPAIR  WATER SHUTOFF  WILDCAT WELL DETERMINATION	U VENT OR FLARE  SI TA STATUS EXTENSION  OTHER	☐ APD EXTENSION  OTHER:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  BBC hereby requests to drill this well directionally as opposed to the vertical that was previously approved. The surface location and all other information will remain the same. Attached please find a revised survey plat, drilling program, directional plan and directional letter. As a result of the directional wellbore, we are also requesting the well name be changed to LC Tribal 8-26D-47. Old Name: 7-26-47 DLB Revised Name: LC Tribal 8-26D-47 New Bottom Hole: SE NE, 1980' FNL and 700' FEL, Sec. 26, T4S-R7W					
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMB 303 312-8172	ER TITLE Senior Permit Analyst			
SIGNATURE N/A		DATE 3/29/2012			







# BILL BARRETT CORPORATION

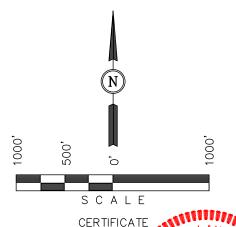
Well location, LC TRIBAL #8-26D-47, located as shown in the SW 1/4 NE 1/4 of Section 26, T4S, R7W, U.S.B.&M., Duchesne County, Utah.

#### BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6097 FEET.

#### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



THIS IS TO CERTIFY THAT THE ABOVE PM FIELD NOTES OF ACTUAL SURVEYS MARE BY ME OR UNDER W SUPERVISION AND THAT THE SAME AND TRUE AND CORRECT BEST OF MY KNOWLEDGE AND BELIEF

#### UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017

,			
	DATE SURVEYED:	DATE DRAWN:	
1" = 1000'	09-21-11	10-18-11	
PARTY	REFERENCES		
FARII	NEF ENERGES		
T.A. C.A. Z.L.	G.L.O. PLAT	•	
WEATHER	FILE		
WARM	BILL BARRET		

# LEGEND:

= 90° SYMBOL

= PROPOSED WELL HEAD.

= SECTION CORNERS LOCATED.

	NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)	ŀ
	LATITUDE = 40°06'20.83" (40.105786)	LATITUDE = $40^{\circ}06'15.97''$ ( $40.104436$ )	15
	LONGITUDE = 110°38'09.34" (110.635928)	LONGITUDE = $110^{\circ}38'17.68"$ ( $110.638244$ )	
		NAD 27 (SURFACE LOCATION)	V
	LATITUDE = 40°06'20.98" (40.105828)		1
Ĭ	LONGITUDE = 110°38'06.78" (110.635217)	LONGITUDE = $110^{\circ}38'15.12''$ (110.637533)	

# BILL BARRETT CORPORATION <u>DRILLING PLAN</u>

1/04/2011

#### LC Tribal 8-26D-47

SW NE, 2472' FNL and 1354' FEL, Section 26, T4S-R7W, USB&M (surface hole) SE NE, 1980' FNL and 700' FEL, Section 26, T4S-R7W, USB&M (bottom hole) Duchesne County, Utah

# 1 - 2. <u>Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals</u>

<b>Formation</b>	Depth – MD	Depth - TVD
Lower Green River*	3,699'	3,605'
Douglas Creek	4,516'	4,390'
Black Shale	5,342'	5,215'
Castle Peak	5,552'	5,425'
Uteland Butte	5,867'	5,740'
Wasatch*	6,092'	5,965'
TD	7,278'	7,150'

\*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 5,500'

## 3. BOP and Pressure Containment Data

<b>Depth Intervals</b>	BOP Equipment			
0 – 1,600'	No pressure control required			
1,600' – TD	11" 5000# Ram Type BOP			
	11" 5000# Annular BOP			
- Drilling spool to accommodate choke and kill lines;				
Ancillary aguinm	Ancillary againment and choke manifold rated at 5,000 pg. All ROD and RODE tasts will be in			

- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.

#### 4. <u>Casing Program</u>

Hole Size	SETTING DEPTH		Casing	Casing	Casing		
	(FROM)	<u>(TO)</u>	Size	Weight	<u>Grade</u>	<b>Thread</b>	Condition
26"	Surface	80'	16"	65#			
12 1/4"	Surface	1,600'	9 5/8"	36#	J or K 55	ST&C	New
8 3/4"	Surface	TD	5 ½"	17#	P-110	LT&C	New

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Bill Barrett Corporation Drilling Program LC Tribal 8-26D-47 Duchesne County, Utah

#### 5. <u>Cementing Program</u>

16" Conductor Casing	Grout		
9 5/8" Surface Casing	Lead: 210 sx Halliburton Light Premium with additives		
	mixed at 11.0 ppg (yield = $3.16 \text{ ft}^3/\text{sx}$ ) circulated to surface		
	with 75% excess. TOC @ Surface		
	Tail: 210 sx Halliburton Premium Plus cement with		
	additives mixed at 14.8 ppg (yield = $1.36 \text{ ft}^3/\text{sx}$ ), calculated		
	hole volume with 75% excess. TOC @ 1,100'		
5 ½" Production Casing	Lead: 620 sx Tuned Light cement with additives mixed at		
	11.0 ppg (yield = $2.31 \text{ ft}^3/\text{sx}$ ). TOC @ 1,100'		
	Tail: 660 sx Halliburton Econocem cement with additives		
	mixed at 13.5 ppg (yield = $1.42 \text{ ft}^3/\text{sx}$ ). Top of cement to		
	be determined by log and sample evaluation; estimated TOC		
	@ 4,842'		

## 6. <u>Mud Program</u>

<u>Interval</u>	Weight	Viscosity	Fluid Loss (API filtrate)	<u>Remarks</u>
0' - 80'	8.3 - 8.8	26 - 36	NC	Freshwater Spud Mud Fluid
				System
80' - 1,600'	8.3 - 8.8	26 - 36	NC	Freshwater Spud Mud Fluid
				System
1,600' – TD	8.6 - 9.6	42-52	20 cc or less	DAP Polymer Fluid System

Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.

### 7. Testing, Logging and Core Programs

Cores	None anticipated;		
Testing	None anticipated; drill stem tests may be run on shows of interest;		
Sampling	ng 30' to 50' samples; surface casing to TD. Preserve samples all show intervals;		
Surveys	MWD as needed to land wellbore;		
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface).		
	FMI & Sonic Scanner to be run at geologist's discretion.		

### 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 3569 psi\* and maximum anticipated surface pressure equals approximately 1996 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

<sup>\*</sup>Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

<sup>\*\*</sup>Maximum surface pressure = A - (0.22 x TD)

Bill Barrett Corporation Drilling Program LC Tribal 8-26D-47 Duchesne County, Utah

## 9. Auxiliary Equipment

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use Mud monitoring will be visually observed

### 10. Location and Type of Water Supply

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W water right number 43-180.

### 11. <u>Drilling Schedule</u>

Location Construction: July 2012 Spud: July 2012

Duration: 15 days drilling time

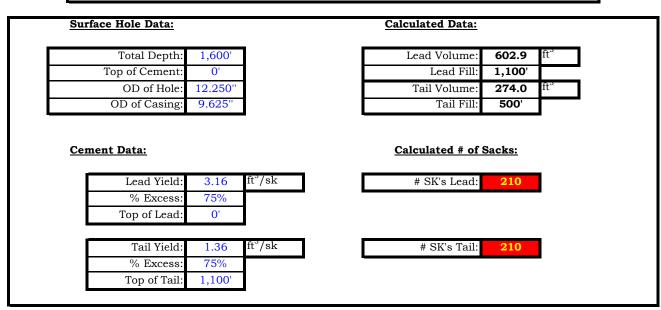
45 days completion time

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#### LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

Well Name: <u>LC Tribal 8-26D-47</u>



Production Hole Data	<u>ı:</u>			Calculated Data:		
Total Depth:	7,278'		Г	Lead Volume:	1417.8	ft³
Top of Cement:	1,100'			Lead Fill:	3,742'	
Top of Tail:	4,842'			Tail Volume:	923.1	$\mathrm{ft}^{\mathrm{s}}$
OD of Hole:	8.750"			Tail Fill:	2,436'	
OD of Casing:	5.500"			-		
Cement Data:			_	Calculated # of	Sacks:	
Cement Data:  Lead Yield:		ft³/sk	Е	Calculated # of s	Sacks:	•
		ft³/sk ft³/sk	F			I

# LC Tribal 8-26D-47 Proposed Cementing Program

Job Recommendation		Sur	face Casing
Lead Cement - (1100' - 0')			
Halliburton Light Premium	Fluid Weight:	11.0	lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield:	3.16	ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid:	19.48	Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid:	0'	
2.0% Bentonite	Calculated Fill:	1,100'	
	Volume:	107.37	bbl
	Proposed Sacks:	210	sks
Tail Cement - (TD - 1100')			
Premium Cement	Fluid Weight:	14.8	lbm/gal
2.0% Calcium Chloride	Slurry Yield:	1.36	ft <sup>3</sup> /sk
	Total Mixing Fluid:	6.37	Gal/sk
	Top of Fluid:	1,100'	
	Calculated Fill:	500'	
	Volume:	48.80	bbl
	Proposed Sacks:	210	sks

Job Recommendation		Produc	tion Casing
Lead Cement - (4842' - 1100')			
Tuned Light <sup>™</sup> System	Fluid Weight:	11.0	lbm/gal
	Slurry Yield:	2.31	ft <sup>3</sup> /sk
	Total Mixing Fluid:	10.65	Gal/sk
	Top of Fluid:	1,100'	
	Calculated Fill:	3,742'	
	Volume:	252.50	bbl
	Proposed Sacks:	620	sks
Tail Cement - (7278' - 4842')			
Econocem <sup>TM</sup> System	Fluid Weight:	13.5	lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield:	1.42	ft <sup>3</sup> /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid:	6.61	Gal/sk
	Top of Fluid:	4,842'	
	Calculated Fill:	2,436'	
	Volume:	164.39	bbl
	Proposed Sacks:	660	sks

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Sundry Number: 24259 API Well Number: 43013340240000 SITE DETAILS: 8-26D-47 LC Tribal

**Bill Barrett Corporation** 

COMPANY DETAILS: BILL BARRETT CORP

Calculation Method: Minimum Curvature

Error System: ISCWSA

8000-

-3000

-2000

-1000

0

Vertical Section at 52.80° (2000 ft/in)

1000

Scan Method: Closest Approach 3D Error Surface: Elliptical Conic Warning Method: Error Ratio

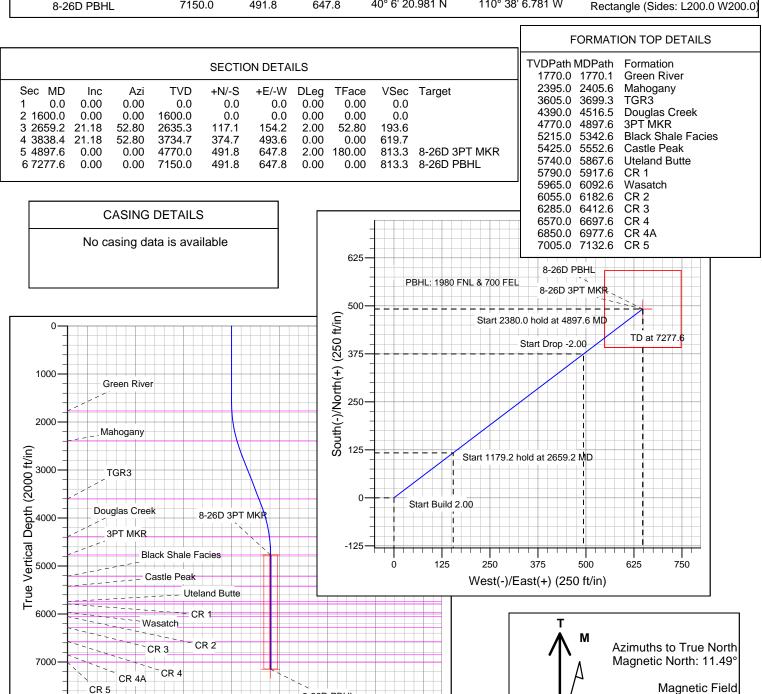
Lake Canyon

Site Centre Latitude: 40° 6' 16.121 N

Longitude: 110° 38' 15.119 W

Positional Uncertainity: 0.0 Convergence: 0.55 Local North: True

		WEL	LBORE TAF	RGET DETAILS (LAT/	LONG)	
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
8-26D 3PT MKR	4770.0	491.8	647.8	40° 6' 20.981 N	110° 38' 6.781 W	Rectangle (Sides: L200.0 W200.0)
8-26D PBHI	7150.0	491.8	647.8	40° 6' 20.981 N	110° 38' 6.781 W	Rectangle (Sides: L200.0 W200.0)



8-26D PBHL

3000

4000

Strength: 52154.4snT

Dip Angle: 65.72° Date: 12/16/2011 Model: IGRF2010

#### **Bill Barrett Corp**

Planning Report

Database: Company:

Compass

**BILL BARRETT CORP** 

Project:

DUCHESNE COUNTY, UT (NAD 27)

Site: Well: 8-26D-47 LC Tribal

Wellbore:

8-26D-47 LC Tribal 8-26D-47 LC Tribal

Design:

Design #1

**Local Co-ordinate Reference:** 

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:**  Well 8-26D-47 LC Tribal

KB @ 7454.0ft (Original Well Elev) KB @ 7454.0ft (Original Well Elev)

True

Minimum Curvature

65.72

Project DUCHESNE COUNTY, UT (NAD 27)

Map System: Geo Datum:

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

0.0 ft

Utah Central 4302

System Datum:

Ground Level

Map Zone:

8-26D-47 LC Tribal Site

Site Position: From:

Lat/Long

Northing: Easting: Slot Radius:

646,264.36 ft 2,241,243.56 ft

Latitude: Longitude: **Grid Convergence:** 

40° 6' 16.121 N 110° 38' 15.119 W

0.55 °

Well 8-26D-47 LC Tribal

**Well Position Position Uncertainty** 

**Position Uncertainty:** 

+N/-S 0.0 ft +E/-W 0.0 ft 0.0 ft

IGRF2010

Northing: Easting:

12/16/2011

646,264.35 ft 2,241,243.56 ft Wellhead Elevation:

Latitude: Longitude: ft **Ground Level:** 

40° 6' 16.121 N 110° 38' 15.119 W 7,438.0 ft

52,154

Wellbore 8-26D-47 LC Tribal Field Strength Magnetics **Model Name** Sample Date Declination **Dip Angle** (°) (nT) (°)

Design	Design #1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:		Depth From (TVD)	+N/-S	+E/-W	Direction
		(ft)	(ft)	(ft)	(°)
		0.0	0.0	0.0	52.80

11.49

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,659.2	21.18	52.80	2,635.3	117.1	154.2	2.00	2.00	0.00	52.80	
3,838.4	21.18	52.80	3,734.7	374.7	493.6	0.00	0.00	0.00	0.00	
4,897.6	0.00	0.00	4,770.0	491.8	647.8	2.00	-2.00	0.00	180.00	8-26D 3PT MKR
7,277.6	0.00	0.00	7,150.0	491.8	647.8	0.00	0.00	0.00	0.00	8-26D PBHL

12/16/2011 10:03:59AM Page 2 COMPASS 2003.21 Build 25

RECEIVED: Mar. 29, 2012

# **Bill Barrett Corp**

Planning Report

Database: Compass

4,300.0

4,400.0

11.95

9.95

52.80

52.80

4,176.7

4,274.9

Company: BILL BARRETT CORP
Project: DUCHESNE COUNTY, UT (NAD 27)

 Site:
 8-26D-47 LC Tribal

 Well:
 8-26D-47 LC Tribal

 Wellbore:
 8-26D-47 LC Tribal

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well 8-26D-47 LC Tribal

KB @ 7454.0ft (Original Well Elev) KB @ 7454.0ft (Original Well Elev)

True

Minimum Curvature

Vellbore:	8-26D-47 LC	Tribal			,				
esign:	Design #1								
anned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	2.00	52.80	1,700.0	1.1	1.4	1.7	2.00	2.00	0.00
1,770.1	3.40	52.80	1,770.0	3.1	4.0	5.0	2.00	2.00	0.00
Green River	0.40	02.00	1,770.0	0.1	4.0	0.0	2.00	2.00	0.00
1,800.0	4.00	52.80	1,799.8	4.2	5.6	7.0	2.00	2.00	0.00
1,900.0	6.00	52.80	1,899.5	9.5	12.5	15.7	2.00	2.00	0.00
2,000.0	8.00	52.80	1,998.7	16.9	22.2	27.9	2.00	2.00	0.00
2,100.0	10.00	52.80	2,097.5	26.3	34.7	43.5	2.00	2.00	0.00
2,200.0	12.00	52.80	2,195.6	37.9	49.9	62.6	2.00	2.00	0.00
2,300.0	14.00	52.80	2,293.1	51.5	67.8	85.1	2.00	2.00	0.00
2,400.0	16.00	52.80	2,389.6	67.1	88.4	111.0	2.00	2.00	0.00
2,405.6	16.11	52.80	2,395.0	68.0	89.6	112.5	2.00	2.00	0.00
Mahogany			_,,						
2,500.0	18.00	52.80	2,485.3	84.8	111.7	140.2	2.00	2.00	0.00
2,600.0	20.00	52.80	2,579.8	104.5	137.6	172.8	2.00	2.00	0.00
2,659.2	21.18	52.80	2,635.3	117.1	154.2	193.6	2.00	2.00	0.00
	21.10			117.1	134.2			2.00	0.00
2,700.0	21.18	52.80	2,673.3	126.0	165.9	208.3	0.00	0.00	0.00
2,800.0	21.18	52.80	2,766.5	147.8	194.7	244.5	0.00	0.00	0.00
2,900.0	21.18	52.80	2,859.8	169.7	223.5	280.6	0.00	0.00	0.00
3,000.0	21.18	52.80	2,953.0	191.5	252.3	316.7	0.00	0.00	0.00
3,100.0	21.18	52.80	3,046.2	213.4	281.1	352.9	0.00	0.00	0.00
2 200 0	24.40	E2 00	2 120 E	225.2	200.0	200.0	0.00	0.00	0.00
3,200.0 3,300.0	21.18	52.80 52.80	3,139.5 3,232.7	235.2	309.9 338.6	389.0 425.2	0.00	0.00	0.00 0.00
	21.18			257.1			0.00		
3,400.0	21.18	52.80	3,326.0	278.9	367.4	461.3	0.00	0.00	0.00
3,500.0	21.18	52.80	3,419.2	300.8	396.2	497.4	0.00	0.00	0.00
3,600.0	21.18	52.80	3,512.5	322.6	425.0	533.6	0.00	0.00	0.00
3,699.3	21.18	52.80	3,605.0	344.3	453.6	569.4	0.00	0.00	0.00
TGR3									
3,700.0	21.18	52.80	3,605.7	344.5	453.8	569.7	0.00	0.00	0.00
3,800.0	21.18	52.80	3,698.9	366.3	482.6	605.8	0.00	0.00	0.00
3,838.4	21.18	52.80	3,734.7	374.7	493.6	619.7	0.00	0.00	0.00
3,900.0	19.95	52.80	3,792.4	387.8	510.8	641.4	2.00	-2.00	0.00
4,000.0	17.95	52.80	3,887.0	407.4	536.7	673.8	2.00	-2.00	0.00
4,100.0	15.95	52.80	3,982.6	425.1	559.9	703.0	2.00	-2.00	0.00
4,200.0	13.95	52.80	4,079.2	440.7	580.5	728.8	2.00	-2.00	0.00
4 300 0	11.05	52.80	1 176 7	454.2	508 3	751.2	2.00	2.00	0.00

598.3

613.5

751.2

770.2

2.00

2.00

454.2

465.7

RECEIVED: Mar. 29, 2012

-2.00

-2.00

0.00

0.00

## **Bill Barrett Corp**

Planning Report

Database: Company: Compass

**BILL BARRETT CORP** 

Project:

DUCHESNE COUNTY, UT (NAD 27)

Site: Well: 8-26D-47 LC Tribal

8-26D-47 LC Tribal Wellbore: 8-26D-47 LC Tribal Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 8-26D-47 LC Tribal

KB @ 7454.0ft (Original Well Elev) KB @ 7454.0ft (Original Well Elev)

Minimum Curvature

Design:	Design #1								
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,500.0 4,516.5	7.95 7.62	52.80 52.80	4,373.6 4,390.0	475.1 476.5	625.9 627.7	785.8 788.0	2.00 2.00	-2.00 -2.00	0.00 0.00
Douglas Cree 4,600.0 4,700.0 4,800.0	5.95 3.95 1.95	52.80 52.80 52.80	4,472.9 4,572.5 4,672.4	482.4 487.6 490.8	635.5 642.4 646.5	797.9 806.5 811.7	2.00 2.00 2.00	-2.00 -2.00 -2.00	0.00 0.00 0.00
4,897.6	0.00	0.00	4,770.0	491.8	647.8	813.3	2.00	-2.00	0.00
<b>3PT MKR - 8-2</b> 4,900.0 5,000.0	0.00 0.00	0.00 0.00	4,772.4 4,872.4	491.8 491.8	647.8 647.8	813.3 813.3	0.00 0.00	0.00 0.00	0.00 0.00
5,100.0 5,200.0 5,300.0	0.00 0.00 0.00	0.00 0.00 0.00	4,972.4 5,072.4 5,172.4	491.8 491.8 491.8	647.8 647.8 647.8	813.3 813.3 813.3	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
5,342.6 Black Shale F 5,400.0	0.00	0.00	5,215.0 5,272.4	491.8 491.8	647.8	813.3 813.3	0.00	0.00	0.00
5,500.0 5,552.6 Castle Peak	0.00 0.00 0.00	0.00 0.00 0.00	5,372.4 5,425.0	491.8 491.8	647.8 647.8	813.3 813.3	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
5,600.0 5,700.0	0.00 0.00	0.00 0.00	5,472.4 5,572.4	491.8 491.8	647.8 647.8	813.3 813.3	0.00 0.00	0.00 0.00	0.00 0.00
5,800.0 5,867.6 Uteland Butte	0.00 0.00	0.00 0.00	5,672.4 5,740.0	491.8 491.8	647.8 647.8	813.3 813.3	0.00 0.00	0.00 0.00	0.00 0.00
5,900.0	0.00	0.00	5,772.4	491.8	647.8	813.3	0.00	0.00	0.00
5,917.6	0.00	0.00	5,790.0	491.8	647.8	813.3	0.00	0.00	0.00
<b>CR 1</b> 6,000.0 6,092.6	0.00 0.00	0.00 0.00	5,872.4 5,965.0	491.8 491.8	647.8 647.8	813.3 813.3	0.00 0.00	0.00 0.00	0.00 0.00
<b>Wasatch</b> 6,100.0 6,182.6	0.00 0.00	0.00 0.00	5,972.4 6,055.0	491.8 491.8	647.8 647.8	813.3 813.3	0.00 0.00	0.00 0.00	0.00 0.00
6,200.0 6,300.0 6,400.0	0.00 0.00 0.00	0.00 0.00 0.00	6,072.4 6,172.4 6,272.4	491.8 491.8 491.8	647.8 647.8 647.8	813.3 813.3 813.3	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
6,412.6 CR 3	0.00	0.00	6,285.0	491.8	647.8	813.3	0.00	0.00	0.00
6,500.0 6,600.0	0.00 0.00	0.00 0.00	6,372.4 6,472.4	491.8 491.8	647.8 647.8	813.3 813.3	0.00 0.00	0.00 0.00	0.00 0.00
6,697.6 CR 4	0.00	0.00	6,570.0	491.8	647.8	813.3	0.00	0.00	0.00
6,700.0 6,800.0 6,900.0	0.00 0.00 0.00	0.00 0.00 0.00	6,572.4 6,672.4 6,772.4	491.8 491.8 491.8	647.8 647.8 647.8	813.3 813.3 813.3	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
6,977.6 <b>CR 4A</b> 7,000.0	0.00	0.00	6,850.0 6,872.4	491.8 491.8	647.8 647.8	813.3 813.3	0.00	0.00	0.00
7,000.0 7,100.0 7,132.6 CR 5	0.00 0.00 0.00	0.00 0.00 0.00	6,872.4 6,972.4 7,005.0	491.8 491.8 491.8	647.8 647.8 647.8	813.3 813.3 813.3	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
7,200.0	0.00	0.00	7,072.4	491.8	647.8	813.3	0.00	0.00	0.00

12/16/2011 10:03:59AM Page 4 COMPASS 2003.21 Build 25

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#### **Bill Barrett Corp**

Planning Report

Database: Compass

Design:

Company: BILL BARRETT CORP
Project: DUCHESNE COUNTY, UT (NAD 27)

Design #1

 Site:
 8-26D-47 LC Tribal

 Well:
 8-26D-47 LC Tribal

 Wellbore:
 8-26D-47 LC Tribal

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well 8-26D-47 LC Tribal

KB @ 7454.0ft (Original Well Elev) KB @ 7454.0ft (Original Well Elev)

True

Minimum Curvature

lanned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,277.6 <b>8-26D PBHL</b>	0.00	0.00	7,150.0	491.8	647.8	813.3	0.00	0.00	0.00

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,770.1	1,770.0	Green River		0.00	
	2,405.6	2,395.0	Mahogany		0.00	
	3,699.3	3,605.0	TGR3		0.00	
	4,516.5	4,390.0	Douglas Creek		0.00	
	4,897.6	4,770.0	3PT MKR		0.00	
	5,342.6	5,215.0	Black Shale Facies		0.00	
	5,552.6	5,425.0	Castle Peak		0.00	
	5,867.6	5,740.0	Uteland Butte		0.00	
	5,917.6	5,790.0	CR 1		0.00	
	6,092.6	5,965.0	Wasatch		0.00	
	6,182.6	6,055.0	CR 2		0.00	
	6,412.6	6,285.0	CR 3		0.00	
	6,697.6	6,570.0	CR 4		0.00	
	6,977.6	6,850.0	CR 4A		0.00	
	7,132.6	7,005.0	CR 5		0.00	

RECEIVED: Mar. 29, 2012



March 29, 2012

Ms. Diana Mason – Petroleum Technician State of Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 P. O. Box 145801 Salt Lake City, Utah 84114-5801

Re: Directional Drilling R649-3-11

Lake Canyon Area #8-26D-47 LC Tribal Well

Surface: 2,472' FNL & 1,354' FWL, SWNE, 26-T4S-R7W, USM Bottom Hole: 1,980' FNL & 700' FWL, SENE, 26-T4S-R7W, USM

Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill the above referenced well, we hereby submit this letter in accordance with Oil & Gas Conservation Rules R649-2, R649-3, R649-10 and R649-11, pertaining to the Location and Siting of Wells.

- The proposed location is within our Lake Canyon Area.
- BBC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, BBC will be able to utilize the existing road and pipelines in the area.
- The well will be drilled under an Exploration and Development Agreement between the Ute Indian Tribe and Ute Distribution Corporation. Ute Energy, LLC owns a right to participate in this well.
- BBC certifies that it is the working interest owner of all lands within 460 feet of the proposed well location, and together with Ute Energy, LLC, we own 100% of the working interest in these lands.

Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-11. Should you have any questions or need further information, please contact me at 303-312-8544.

Sincerely,

David Watts

Landman

1099 18<sup>TH</sup> STREET SUITE 2300 DENVER, CO 80202 P 303.293.9100 F 303.291.0420

	STATE OF UTAH		FORM 9		
ı	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ		5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-5500		
SUNDR	Y NOTICES AND REPORTS OF	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE		
	posals to drill new wells, significantly de- reenter plugged wells, or to drill horizonta n for such proposals.		7.UNIT or CA AGREEMENT NAME:		
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: LC TRIBAL 8-26D-47		
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43013340240000				
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300		HONE NUMBER: 3 312-8164 Ext	9. FIELD and POOL or WILDCAT: WILDCAT		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2472 FNL 1354 FEL			COUNTY: DUCHESNE		
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SWNE Section: 2	IIP, RANGE, MERIDIAN: 26 Township: 04.0S Range: 07.0W Meridia	n: U	STATE: UTAH		
11. CHECI	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOF	RT, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
7	ACIDIZE	ALTER CASING	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start: 7/17/2012	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
1/11/2012	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION		
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK		
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON		
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL		
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION		
1	WILDCAT WELL DETERMINATION	OTHER	OTHER:		
	COMPLETED OPERATIONS. Clearly show all		A CORP. SALES CONT. SALES CONT.		
This sundry is bei	ng submitted to request an ex		Approved by the Utah Division of		
	which expires on 7/16/2012		Oil, Gas and Mining		
			Date: July 23, 2012		
			Date: Say 20, 20, 20, 10		
			By:		
NAME (PLEASE PRINT) Megan Finnegan	PHONE NUMBER 303 299-9949	TITLE Permit Analyst			
SIGNATURE	000 200 0010	DATE			
N/A		7/17/2012			



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43013340240000

**API:** 43013340240000 **Well Name:** LC TRIBAL 8-26D-47

Location: 2472 FNL 1354 FEL QTR SWNE SEC 26 TWNP 040S RNG 070W MER U

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 7/16/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
<ul> <li>Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No</li> </ul>
• Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes No
• Has the approved source of water for drilling changed?   Yes  No
<ul> <li>Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?</li> <li>Yes</li> <li>No</li> </ul>
• Is bonding still in place, which covers this proposed well?   Yes   No
natural Magan Finnagan Data: 7/17/2012

Signature: Megan Finnegan Date: 7/17/2012

Title: Permit Analyst Representing: BILL BARRETT CORP

Sundry Number: 39073 API Well Number: 43013340240000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURC			FORM 9		
ι	5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-5500					
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE					
	posals to drill new wells, significantly of reenter plugged wells, or to drill horizon n for such proposals.			7.UNIT or CA AGREEMENT NAME:		
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: LC TRIBAL 8-26D-47		
2. NAME OF OPERATOR: BILL BARRETT CORP				9. API NUMBER: 43013340240000		
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202 3		NE NUMBER: 312-8134 Ext	9. FIELD and POOL or WILDCAT: WILDCAT		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2472 FNL 1354 FEL				COUNTY: DUCHESNE		
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SWNE Section: 2	IIP, RANGE, MERIDIAN: 26 Township: 04.0S Range: 07.0W Meri	dian:	U	STATE: UTAH		
11. CHECI	APPROPRIATE BOXES TO INDICAT	E N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA		
TYPE OF SUBMISSION			TYPE OF ACTION			
	ACIDIZE		ALTER CASING	CASING REPAIR		
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	□ c	CHANGE TUBING	CHANGE WELL NAME		
7/1/2014	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT	DEEPEN	□ F	FRACTURE TREAT	NEW CONSTRUCTION		
Date of Work Completion:	OPERATOR CHANGE	□ р	PLUG AND ABANDON	PLUG BACK		
	PRODUCTION START OR RESUME	□ R	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	□ s	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON		
	TUBING REPAIR	□ v	/ENT OR FLARE	WATER DISPOSAL		
DRILLING REPORT	WATER SHUTOFF	□ s	SI TA STATUS EXTENSION	✓ APD EXTENSION		
Report Date:	WILDCAT WELL DETERMINATION		OTHER	OTHER:		
				<u> </u>		
	COMPLETED OPERATIONS. Clearly show a quests a one year extension			Approved by the		
BBO nereby rev	quests a one year extension	101	the subject At B	Utah Division of		
				Oil, Gas and Mining		
				Date: June 19, 2013		
				By: Basylll		
				73		
NAME (DI EACE DOINT)	DUONE WIND	ED	TITLE			
NAME (PLEASE PRINT) Venessa Langmacher	<b>PHONE NUMB</b> 303 312-8172	EK	TITLE Senior Permit Analyst			
SIGNATURE N/A			DATE 6/17/2013			

Sundry Number: 39073 API Well Number: 43013340240000



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43013340240000

**API:** 43013340240000 **Well Name:** LC TRIBAL 8-26D-47

Location: 2472 FNL 1354 FEL QTR SWNE SEC 26 TWNP 040S RNG 070W MER U

Company Permit Issued to: BILL BARRETT CORP

**Date Original Permit Issued: 7/16/2008** 

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

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<ul> <li>Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?</li> <li>Yes</li> <li>No</li> </ul>
• Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
• Has the approved source of water for drilling changed?   Yes  No
<ul> <li>Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?</li> <li>Yes</li> <li>No</li> </ul>
• Is bonding still in place, which covers this proposed well?   Yes   No
Deter C/47/2042

Signature: Venessa Langmacher Date: 6/17/2013

Title: Senior Permit Analyst Representing: BILL BARRETT CORP

			FORM
	STATE OF UTAH		FORM 9
	5.LEASE DESIGNATION AND SERIAL NUMBER:		
	14-20-H62-5500		
SUNDF	RY NOTICES AND REPORTS O	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
	oposals to drill new wells, significantly de reenter plugged wells, or to drill horizont in for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: LC TRIBAL 8-26D-47
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013340240000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300		PHONE NUMBER: 03 312-8134 Ext	9. FIELD and POOL or WILDCAT: WILDCAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2472 FNL 1354 FEL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNS	H <b>IP, RANGE, MERIDIAN:</b> 26 Township: 04.0S Range: 07.0W Merid	an: U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
7/16/2015	l —		
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN L	FRACTURE TREAT	☐ NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date:			
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
I .	COMPLETED OPERATIONS. Clearly show all		
BBC her	eby request a one year extens	sion for APD	Approved by the Utah Division of
			Oil, Gas and Mining June 17, 2014
			Date:
			By: bacquill
NAME (PLEASE PRINT) Christina Hirtler	<b>PHONE NUMBE</b> 303 312-8597	R TITLE Administrative Assistant	
SIGNATURE N/A		<b>DATE</b> 6/16/2014	



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43013340240000

API: 43013340240000 Well Name: LC TRIBAL 8-26D-47

Location: 2472 FNL 1354 FEL QTR SWNE SEC 26 TWNP 040S RNG 070W MER U

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 7/16/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?     Yes      No
• Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes No
• Has the approved source of water for drilling changed?   Yes  No
<ul> <li>Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?</li> <li>Yes</li> <li>No</li> </ul>
• Is bonding still in place, which covers this proposed well?   Yes   No
nature: Christina Hirtler Date: 6/16/2014

Title: Permit Analyst Representing: BILL BARRETT CORP

Form 3160-3 (August 2007)



UNITED STATES
DEPARTMENT OF THE INTERNAN 0 8 2014 BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

#### 5. Lease Serial No. 20G0005500

APPLICATION FOR PERMIT	TO DRILLOR NEW THRAIL	6. If Indian, Allottee or Tribe	Name		
la. Type of Work: R DRILL REENTER		7. If Unit or CA Agreement,	Name and No.		
	VENESSA LANGMACHER	8. Lease Name and Well No. LC TRIBAL 8-26D-47  9. API Well No.			
BILL BARRETT CORPORATION E-Mail: vlangma  3a. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202	3b. Phone No. (include area code) Ph: 303-312-8172 Fx: 303-291-0420	43 013 340a 10. Field and Pool, or Explor UNDESIGNATED			
Location of Well (Report location clearly and in accordance     SWNE 2472FNL 1354FEL	nce with any State requirements.*) 40.104436 N Lat, 110.638244 W Lon	11. Sec., T., R., M., or Blk. a Sec 26 T4S R7W Me			
At proposed prod. zone SENE 1980FNL 700FEL 40		360 20 143 1(7 W WE	ОБІМ		
<ol> <li>Distance in miles and direction from nearest town or post of 19.9 MILES SOUTHWEST OF DUCHESNE, UT</li> </ol>		12. County or Parish DUCHESNE	13. State UT		
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 700'	16. No. of Acres in Lease 123995.00	17. Spacing Unit dedicated to 640.00			
<ol> <li>Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. NONE</li> </ol>	19. Proposed Depth 7278 MD 7150 TVD	20. BLM/BIA Bond No. on RECEIVED LPM8874725			
21. Elevations (Show whether DF, KB, RT, GL, etc. 7438 GL	22. Approximate date work will start	23. Estimated duration 60 DAYS (D&C)	UN 2 0 2014		
	24. Attachments	DIV. C	OIL, GAS & MINING		
<ol> <li>The following, completed in accordance with the requirements o</li> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Off</li> </ol>	4. Bond to cover the operation Item 20 above). em Lands, the 5. Operator certification	his form:  ns unless covered by an existing  formation and/or plans as may be			
25. Signature (Electronic Submission)	Name (Printed/Typed) VENESSA LANGMACHER Ph: 303-312	2-8172	Date 12/31/2013		
Title SENIOR PERMIT ANALYST					
Approved by (Signature)	Name (Printed/Typed)  Jerry Kenczk	a	Date JUN 1 6 2014		
Title Aspistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE				
Application approval does not warrant or certify the applicant ho operations thereon. Conditions of approval, if any, are attached.	lds legal or equitable title to those rights in the subject le	ase which would entitle the appl ONS OF APPROVAL A	icant to conduct		

Additional Operator Remarks (see next page)

Electronic Submission #230792 verified by the BLM Well Information System For BILL BARRETT CORPORATION, sent to the Vernal Committed to AFMSS for processing by LESLIE BUHLER on 01/15/2014 ()

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

# **NOTICE OF APPROVAL**



# UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

**VERNAL FIELD OFFICE** 

**VERNAL. UT 84078** 

(435) 781-4400



#### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No: API No:

BILL BARRETT CORPORATION

LC TRIBAL 8-26D-47

43-013-34024

Location:

SWNE, Sec. 26, T4S, R7W

Lease No: 2OG0005500

Agreement:

N/A

**OFFICE NUMBER:** 

(435) 781-4400

**OFFICE FAX NUMBER: (435) 781-3420** 

#### A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

#### **NOTIFICATION REQUIREMENTS**

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 7 Well: LC TRIBAL 8-26D-47 6/6/2014

#### SURFACE USE PROGRAM **CONDITIONS OF APPROVAL (COAs)**

#### STIPULATIONS/CONDITIONS OF APPROVAL

Company/Operator.

Bill Barrett Corporation

Well Name(s) & Number(s): LC Tribal 8-26D-47

Surface Ownership:

Ute Indian Tribe

Lease Number.

2OG0005500

Locations:

SW/NE of Sec. 26, T4S, R7W U B&M

#### SURFACE USE PROGRAM **CONDITIONS OF APPROVAL (COA's)**

#### Additional Conditions of Approval:

- Round corner 2 approximately 8 feet and round the remaining corners to the greatest extent possible in order to minimize cuts and fills.
- Double line the reserve pit.
- Relocate topsoil piles from the area between corners C and 6 to the area between corners 3 and 4.
- Install one gate and one cattleguard combination to BLM Gold Book standards at the county road fence.
- Install silt fences as necessary to reduce erosion.
- All Production Equipment will be painted Beetle Green to help blend into the surrounding vegetation and meet VRM type objectives.
- The production equipment will be placed towards the front of the pad to maximize interim reclamation efforts on all well pads where applicable.
- See Exhibit One of the approved CX U&O-FY12-Q3-081 for any additional mitigation measures that will be followed for this proposed action.
- All site specific mitigation measures attached to the Applications for Permit to Drill, specifically those found at the beginning of the surface use plan of operations will be required and followed as indicated.

#### General Conditions of Approval:

- One 30' corridor width pipeline right-of-way(s) shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipelines.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are

Page 3 of 7 Well: LC TRIBAL 8-26D-47 6/6/2014

Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.

- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- In the event of any deviation from the submitted APD's and ROW applications the Company will
  notify the Ute Tribe and BIA in writing and will receive written authorization of any such change
  with appropriate authorization.
- Bill Barrett Corporation will implement a "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, COA's, and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- The personnel from the Ute Tribe Energy & Minerals Department should be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

# DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### SITE SPECIFIC DOWNHOLE COAs:

- A formation integrity test shall be performed at the surface casing shoe.
- Gamma Ray Log shall be run from Total Depth to Surface.
- To effectively protect useable water, cement for the long string is required to be brought 200 feet above the surface casing shoe.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the
  daily drilling report. Components shall be operated and tested as required by Onshore Oil &
  Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be
  performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be
  reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water
  is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM
  Vernal Field Office
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of

Page 5 of 7 Well: LC TRIBAL 8-26D-47 6/6/2014

each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
   Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum
   Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 6 of 7 Well: LC TRIBAL 8-26D-47 6/6/2014

#### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at <a href="https://www.ONRR.gov">www.ONRR.gov</a>.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
  notified when it is placed in a producing status. Such notification will be by written
  communication and must be received in this office by not later than the fifth business day
  following the date on which the well is placed on production. The notification shall provide, as a
  minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - o Well location (1/4/4, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - o The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - o The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

Page 7 of 7 Well: LC TRIBAL 8-26D-47 6/6/2014

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM. Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field
  Office Petroleum Engineers will be provided with a date and time for the initial meter calibration
  and all future meter proving schedules. A copy of the meter calibration reports shall be
  submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API
  standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All
  measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted
  to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs
  first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be
  adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively
  sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior
  approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
  days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
  before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office
  Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in
  order that a representative may witness plugging operations. If a well is suspended or
  abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent
  Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual
  plugging of the well bore, showing location of plugs, amount of cement in each, and amount of
  casing left in hole, and the current status of the surface restoration.

Sundry Number: 63658 API Well Number: 43013340240000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES		FORM 9
ı	5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-5500		
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE		
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME:		
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: LC TRIBAL 8-26D-47
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013340240000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300		DNE NUMBER: 312-8134 Ext	9. FIELD and POOL or WILDCAT: WILDCAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2472 FNL 1354 FEL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HP, RANGE, MERIDIAN: 26 Township: 04.0S Range: 07.0W Meridian	: U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICATE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
7	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
7/16/2015	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
Date of Work Completion.	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT  Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	☐ WATER SHUTOFF ☐	SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show all pe	ertinent details including dates, d	lepths, volumes, etc.
	quest a one year extension for t		Approved by the
	7/16/2016		Ulume 108 is 2015 of Oil, Gas and Mining
			on, das una rinning
			Date:
			By: Danglill
			353
NAME (PLEASE PRINT) Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	TITLE Permit Analyst	
SIGNATURE	333 3.2 3110	DATE	
N/A		6/1/2015	

Sundry Number: 63658 API Well Number: 43013340240000



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43013340240000

API: 43013340240000 Well Name: LC TRIBAL 8-26D-47

Location: 2472 FNL 1354 FEL QTR SWNE SEC 26 TWNP 040S RNG 070W MER U

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 7/16/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- ·····g ··· ·· ······· ·· ······· ·· ······
• If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
<ul> <li>Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?</li> <li>Yes</li> <li>No</li> </ul>
<ul> <li>Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?</li> <li>Yes</li> <li>No</li> </ul>
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
• Has the approved source of water for drilling changed?   Yes  No
<ul> <li>Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?</li> <li>Yes</li> <li>No</li> </ul>
• Is bonding still in place, which covers this proposed well?   Yes   No
nature: Brady Riley Date: 6/1/2015

Sig

Title: Permit Analyst Representing: BILL BARRETT CORP



# **United States Department of the Interior**

BUREAU OF LAND MANAGEMENT Green River District Vernal Field Office 170 South 500 East Vernal, UT 84078 http://www.blm.gov/ut/st/en/fo/vernal.html



JAN 24 2014

IN REPLY REFER TO: 3160 (UTG011)

Venessa Langmacher Bill Barrett Corporation 1099 18<sup>th</sup> Street, Suite 2300 Denver, CO 80202

43 613 3402%

Re:

Request to Rescind Approved APD Well No. LC Tribal 8-26D-47 SWNE, Sec. 26, T4S, R7W Duchesne County, Utah Lease No. 2OG0005500 RECEIVED

FEB 1 4 2014

DIV. OF OIL, GAS & MINING

Dear Ms. Langmacher:

The Application for Permit to Drill (APD) for the above-referenced well was approved on March 14, 2010. This office is rescinding its approval of the referenced Application for Permit to Drill per your request to this office in an email message to Land Law Examiner Robin R. Hansen received on January 15, 2014. If you intend to drill at this location in the future, a new Application for Permit to Drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

If you have any questions regarding APD processing, please contact Robin R. Hansen at (435) 781-3428.

Sincerely,

/s/ Jerry Kenczka

Jerry Kenczka Assistant Field Manager Lands & Resource Minerals

CC:

**UDOGM** 

**BIA** 

bcc:

Well File

I&E Asst.

Sundry Number: 70854 API Well Number: 43013340240000

			FORM 9					
	STATE OF UTAH DEPARTMENT OF NATURAL RESOURC		I SINIII 3					
	5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-5500							
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE					
	oposals to drill new wells, significantly or reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME:					
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: LC TRIBAL 8-26D-47					
2. NAME OF OPERATOR: BILL BARRETT CORP			<b>9. API NUMBER:</b> 43013340240000					
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202	PHONE NUMBER: 03 312-8134 Ext	9. FIELD and POOL or WILDCAT: WILDCAT					
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2472 FNL 1354 FEL			COUNTY: DUCHESNE					
QTR/QTR, SECTION, TOWNSH	<b>HIP, RANGE, MERIDIAN:</b> 26 Township: 04.0S Range: 07.0W Meri	dian: U	STATE: UTAH					
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA					
TYPE OF SUBMISSION		TYPE OF ACTION						
	ACIDIZE	ALTER CASING	CASING REPAIR					
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME					
7/16/2017	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE					
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION					
Date of Work Completion:								
	OPERATOR CHANGE	☐ PLUG AND ABANDON	PLUG BACK					
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION					
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	L TEMPORARY ABANDON					
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL					
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION					
Nopon Suio.	WILDCAT WELL DETERMINATION	OTHER	OTHER:					
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show a	II pertinent details including dates, o	depths, volumes, etc.					
I .	esting a one year permit exte		Approved by the					
	7/16/2017.		Utahil005is2016f Oil, Gas and Mining					
			Date:					
			By: Doggill					
NAME (PLEASE PRINT) Brady Riley	<b>PHONE NUMB</b> 303 312-8115	ER TITLE Permit Analyst						
SIGNATURE N/A		<b>DATE</b> 4/4/2016						

Sundry Number: 70854 API Well Number: 43013340240000



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43013340240000

**API:** 43013340240000 **Well Name:** LC TRIBAL 8-26D-47

Location: 2472 FNL 1354 FEL QTR SWNE SEC 26 TWNP 040S RNG 070W MER U

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 7/16/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?      Yes      No
• Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes No
• Has the approved source of water for drilling changed?   Yes  No
<ul> <li>Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?</li> <li>Yes</li> <li>No</li> </ul>
• Is bonding still in place, which covers this proposed well?   Yes   No
natural Produ Bilov Pato 4/4/2016

Signature: Brady Riley Date: 4/4/2016

Title: Permit Analyst Representing: BILL BARRETT CORP

Division of Oil, Gas and Mining

Operator Change/Name Change Worksheet-for State use only

Effective Date:

11/1/2016

FORMER OPERATOR:	NEW OPERATOR:
Bill Barrett Corporation	Rig II, LLC
1099 18th Street, Suite 2300	1582 West 2600 South
Denver, CO 80202	Woods Cross, UT 84087
CA Number(s):	Unit(s):

#### WELL INFORMATION:

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

#### **OPERATOR CHANGES DOCUMENTATION:**

1. Sundry or legal documentation was received from the **FORMER** operator on:

10/21/2016

2. Sundry or legal documentation was received from the NEW operator on:

10/21/2016

3. New operator Division of Corporations Business Number:

8256968-0160

#### **REVIEW:**

1. Surface Agreement Sundry from NEW operator on Fee Surface wells received on:

N/A

2. Receipt of Acceptance of Drilling Procedures for APD on:

10/21/2016

3. Reports current for Production/Disposition & Sundries:

11/2/2016

4. OPS/SI/TA well(s) reviewed for full cost bonding:

11/3/2016

5. UIC5 on all disposal/injection/storage well(s) approved on:

11/3/2016

6. Surface Facility(s) included in operator change:

None

7. Inspections of PA state/fee well sites complete on (only upon operators request):

11/3/2016

#### **NEW OPERATOR BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number:

UTB000712

2. Indian well(s) covered by Bond Number:

LPM 922467

3.State/fee well(s) covered by Bond Number(s):

9219529

#### **DATA ENTRY:**

1. Well(s) update in the OGIS on:

11/7/2016

2. Entity Number(s) updated in OGIS on:

11/7/2016

3. Unit(s) operator number update in OGIS on:

N/A

4. Surface Facilities update in OGIS on:

N/A

5. State/Fee well(s) attached to bond(s) in RBDMS on:

11/7/2016

6. Surface Facilities update in RBDMS on:

N/A

#### **COMMENTS:**

Well Name	Sec	TWN	RNG	API Number	Entity	Mineral	Surface	Туре	Status
SWD 9-36 BTR	9	0308	060W	4301350646	18077	Indian	Fee	WD	Α
16-6D-46 BTR SWD	6	040S	060W	4301350781	18327	Indian	Fee	WD	Α
6-32-36 BTR SWD	32	030S	060W	4301350921	18329	Indian	Fee	WD	Α
LC TRIBAL 8-26D-47	26	040S	070W	4301334024		Indian	Indian	OW	APD
16-21D-37 BTR	21	030S	070W	4301350758		Indian	Fee	OW	APD
14-11D-37 BTR	11	030S	070W	4301350862		Indian	Fee	OW	APD
7-17D-46 BTR	17	040\$	060W	4301350883		Indian	Indian	OW	APD
14-12D-37 BTR	12	030S	070W	4301350894		Indian	Fee	OW	APD
1-18D-36 BTR	18	030S	060W	4301350922		Indian	Fee	OW	APD
13-2D-45 BTR	2	040S	050W	4301350931		Indian	Indian	OW	APD
5H-16-46 BTR	16	040S	060W	4301350992		Indian	Indian	OW	APD
9H-17-45 BTR	17	040S	050W	4301351098		Indian	Indian	OW	APD
13H-8-46 BTR UB	8	040S	060W	4301351124		Indian	Indian	OW	APD
BH-9-46 BTR	9	040S	060W	4301351140		Indian	Indian	ow	APD
_C TRIBAL 7-31D-37	31	030S	070W	4301351147		Indian	Fee	ow	APD
14-16D-45 BTR	16	040S	050W	4301351178		Indian	Indian	ow	APD
16-19D-37 BTR	19	030S	070W	4301351179		Indian	Fee	OW	APD
6-2D-45 BTR	2	040S	050W	4301351234		Indian	Indian	ow	APD
2-2D-45 BTR	2	040S	050W	4301351235		Indian	Indian	ow	APD
10-26-35 BTR	26	030S	050W	4301351248		Indian	Fee	OW	APD
C TRIBAL 1H-33-46	33	040S	060W	4301351257		Indian	Fee	ow	APD
_C TRIBAL 9-25D-46	25	040S	060W	4301351276		Indian	Indian	ow	APD
C TRIBAL 8H-30-45	30	040S	050W	4301351277	(8.7)	Indian	Indian	OW	APD
_C TRIBAL 16H-30-45	30	040S	050W	4301351279		Indian	Indian	OW	APD
_C TRIBAL 13-30D-45	30	040S	050W	4301351282		Indian	Indian	ow	APD
_C TRIBAL 16H-36-46	36	040S	060W	4301351291		Indian	Indian	OW	APD
C TRIBAL 13H-30-46	30	040S	060W	4301351321		Indian	Indian	OW	APD
C TRIBAL 13H-31-46	31	040S	060W	4301351326		Indian	Indian	OW	APD
_C TRIBAL 16-31D-46	31	040S	060W	4301351328		Indian	Indian	OW	APD
C TRIBAL 5H-26-47	26	040S	070W	4301351337		Indian	Indian	OW	APD
_C TRIBAL 5H-19-45	20	040S	050W	4301351349		Indian	Indian	OW	APD
C TRIBAL 16-36D-47	36	040S	070W	4301351363		Indian	Indian	OW	APD
15-4D-47 BTR	4	040S	070W	4301351377		Indian	Fee	OW	APD
16-23D-46 LC TRIBAL	23	040S	060W	4301351396		Indian	Fee	ow	APD
15-2D-36 BTR	2	030S	060W	4301351419		Indian	Fee	OW	APD
16-23D-37 BTR	23	030S	070W	4301351420	1	Indian	Fee	ow	APD
11-9D-47 BTR	9	040S	070W	4301351422		Indian	Fee	OW	APD
15-13D-47 BTR	13	040S	070W	4301351424		Indian	Indian	OW	APD
_C TRIBAL 15-19D-46	19	040S	060W	4301351426		Indian	Indian	OW	APD
16-13D-45 BTR	13	040S	050W	4301351428		Indian	Indian	OW	APD

14-12D-45 BTR	12	040S	050W	4301351444	Indian	Indian	OW	APD
16-14D-45 BTR	14	040S	050W	4301351445	Indian	Indian	OW	APD
5-13D-45 BTR	13	040S	050W	4301351446	Indian	Indian	OW	APD
LC TRIBAL 16-26D-46	26	040S	060W	4301351450	Indian	State	OW	APD
LC TRIBAL 10-20D-40	34	0408	060W	4301351451				
16-12D-45 BTR	12	040S	050W	4301351451	Indian Indian	State Indian	OW	APD
8-12D-45 BTR	12	040S	050W	4301351452			OW	APD
LC TRIBAL 1-35D-46	35	040S	060W		Indian	Indian	OW	APD
16-25D-37 BTR	<del></del>	0405	070W	4301351454	Indian	Fee	OW	APD
LC TRIBAL 13H-29-46	25			4301351455	Indian	Fee	OW	APD
	28	0408	060W	4301351462	Indian	Fee	OW	APD
LC TRIBAL 14-30D-37	30	0308	070W	4301351494	Indian	Fee	OW	APD
7-13D-45 BTR	13	0408	050W	4301351497	Indian	Indian	OW	APD
LC TRIBAL 4H-35-46	35	0408	060W	4301351515	Indian	Fee	OW	APD
LC TRIBAL 13H-19-46	19	040\$	060W	4301351543	Indian	Indian	OW	APD
16-26D-37 BTR	26	030S	070W	4301351598	Indian	Fee	OW	APD
LC TRIBAL 16-31D-37	31	030\$	070W	4301351610	Indian	Fee	OW	APD
5-4-35 BTR	4	030S	050W	4301351613	Indian	Fee	OW	APD
LC TRIBAL 16-31D-47	31	040S	070W	4301351616	Indian	Indian	OW	APD
LC TRIBAL 13H-31-47	31	040S	070W	4301351617	Indian	Indian	OW	APD
LC TRIBAL 13-32D-47	32	040S	070W	4301351619	Indian	Indian	OW	APD
LC TRIBAL 16H-32-47	32	040S	070W	4301351620	Indian	Indian	OW	APD
LC TRIBAL 1-32D-47	32	040S	070W	4301351624	Indian	Indian	OW	APD
LC TRIBAL 4H-32-47	32	040S	070W	4301351625	Indian	Indian	OW	APD
LC TRIBAL 13-28D-47	28	040S	070W	4301351627	Indian	Indian	OW	APD
LC TRIBAL 13H-29-47	28	040S	070W	4301351628	Indian	Indian	OW	APD
LC TRIBAL 16H-28-47	28	040S	070W	4301351629	Indian	Indian	OW	APD
LC TRIBAL 1-28D-47	28	040S	070W	4301351639	Indian	Indian	OW	APD
LC TRIBAL 1H-27-47	28	040S	070W	4301351640	Indian	Indian	OW	APD
LC TRIBAL 4H-28-47	28	040S	070W	4301351641	Indian	Indian	OW	APD
LC TRIBAL 7-25D-58	25	050S	W080	4301351643	Indian	Indian	OW	APD
LC TRIBAL 6-25D-58	25	050S	080W	4301351644	Indian	Indian	OW	APD
LC TRIBAL 13H-24-58	24	050S	W080	4301351645	Indian	Indian	OW	APD
LC TRIBAL 16-24D-58	24	050S	080W	4301351646	Indian	Indian	OW	APD
LC Tribal 8-23D-46	23	040S	060W	4301351654	Indian	Fee	OW	APD
LC Tribal 16-35D-45	35	040S	050W	4301351656	Indian	Fee	OW	APD
LC Tribal 13H-35-45	35	040S	050W	4301351657	Indian	Fee	ow	APD
LC Tribal 16-36D-45	36	040S	050W	4301351658	Indian	Fee	ow	APD
LC Tribal 13H-36-45	36	040S	050W	4301351659	Indian	Fee	OW	APD
LC Tribal 5-36D-45	36	0408	050W	4301351661	Indian	Fee	OW	APD
LC Tribal 8-26D-46	26	040\$	060W	4301351663	Indian	Fee	OW	APD
3-29D-36 BTR	29	0308	060W	4301351665	Indian	Fee	OW	APD

LC Tribal 5-35D-45	35	040S	050W	4301351666	Indian	Fee	OW	APD
_C Tribal 5-24D-46	24	0408	060W	4301351668	Indian	Indian	ow	APD
_C TRIBAL 6-12D-58	12	0508	080W	4301351696	Indian	Indian	OW	APD
LC TRIBAL 8-12D-58	12	050S	080W	4301351697	Indian	Indian	OW	APD
.C TRIBAL 16H-22-47	21	040S	070W	4301351700	Indian	Indian	OW	APD
5-25D-37 BTR	25	030S	070W	4301351803	Indian	Fee	OW	APD
8-3D-36 BTR	3	0308	060W	4301351804	Indian	Fee	OW	APD
14-26D-37 BTR	26	0308	070W	4301351805	Indian	Fee	OW	APD
9-4-35 BTR	4	0308	050W	4301351806	Indian	Fee	ow	APD
11-4D-35 BTR	4	030S	050W	4301351807	Indian	Fee	OW	APD
16-27D-37 BTR	27	0308	070W	4301351808	Indian	Fee	OW	APD
14-27D-37 BTR	27	0308	070W	4301351809	Indian	Fee	OW	APD
14-16D-46 BTR	16	040S	060W	4301351812	Indian	Indian	OW	APD
_C Tribal 16-35D-48	35	040S	080W	4301351847	Indian	Indian	OW	APD
LC Tribal 13H-35-48	35	040S	080W	4301351848	Indian	Indian	OW	APD
_C Tribal 13-2D-58	11	050S	080W	4301351850	Indian	Indian	OW	APD
5-13D-36 BTR	13	0308	060W	4301351862	Indian	Fee	OW	APD
5-8D-36 BTR	8	0308	060W	4301351871	Indian	Fee	OW	APD
16-1D-36 BTR	1	0308	060W	4301351872	Indian	Fee	ow	APD
3-18D-46 BTR	18	040S	060W	4301351897	Indian	Fee	OW	APD
_C Tribal 5-36D-46	36	040S	060W	4301351905	Indian	Indian	OW	APD
LC Tribal 5-26D-45	26	040S	050W	4301351907	Indian	Indian	OW	APD
14-13D-45 BTR	13	040S	050W	4301351974	Indian	Indian	OW	APD
14-34D-46 DLB	34	040S	060W	4301351975	Indian	Fee	OW	APD
LC Tribal 5-21D-45	21	0408	050W	4301352001	Indian	Indian	OW	APD
_C Tribal 8-22D-45	22	0408	050W	4301352002	Indian	Indian	OW	APD
_C Tribal 8-25D-45	25	0408	050W	4301352007	Indian	Indian	OW	APD
LC Tribal 16-25D-45	25	040S	050W	4301352008	Indian	Indian	OW	APD
LC Tribal 16-22D-45	22	040S	050W	4301352009	Indian	Indian	OW	APD
LC Tribal 16-26D-45	26	040S	050W	4301352010	Indian	Indian	OW	APD
LC Tribal 14-31D-37	31	0308	070W	4301352016	Indian	Fee	OW	APD
5-12D-45 BTR	12	040S	050W	4301352030	Indian	Indian	ow	APD
LC Tribal 9-20D-45	20	040S	050W	4301352031	Indian	Indian	OW	APD
LC Tribal 13-35D-47	35	0408	070W	4301352055	Indian	Indian	ow	APD
C Tribal 1-23D-47	23	040S	070W	4301352057	Indian	Indian	ow =	APD
9-17D-46 BTR	17	040S	060W	4301352059	Indian	Indian	OW	APD
11-18D-46 BTR	18	040S	060W	4301352060	Indian	Indian	OW	APD
9-10D-47 BTR	10	0408	070W	4301352092	Indian	Fee	OW	APD
LC Tribal 1-17D-47	17	0408	070W	4301352096	Indian	Fee	OW	APD
7-35D-37 BTR	35	0308	070W	4301352115	Indian	Fee	OW	APD
14-25D-37 BTR	25	0308	070W	4301352116	Indian	Fee	OW	APD

LC Tribal 5-25-46	25	040S	060W	4301352126	Indian	Indian	OW	APD
8-33D-35 BTR	33	030S	050W	4301352161	Indian	Fee	OW	APD
5-4D-36 BTR	4	030S	060W	4301352175	Indian	Fee	OW	APD
'-4D-36 BTR	4	030S	060W	4301352176	Indian	Fee	OW	APD
C Tribal 4-36D-47	36	040S	070W	4301352186	Indian	Indian	OW	APD
.C Tribal 4-22D-46	22	040S	060W	4301352944	Indian	Indian	OW	APD
.C Tribal 16-22D-46	22	040S	060W	4301352945	Indian	Indian	OW	APD
.C Tribal 11-19D-46	19	040S	060W	4301352946	Indian	Indian	OW	APD
.C Tribal 7-20D-45	20	040S	050W	4301352947	Indian	Indian	OW	APD
5-11D-35 BTR	11	030S	050W	4301353056	Indian	Fee	OW	APD
3-11D-35 BTR	11	030S	050W	4301353057	Indian	Fee	OW	APD
3TR 16-36D-37	36	030S	070W	4301353059	Indian	Fee	OW	APD
I-29D-35 BTR	30	030S	050W	4301353060	Indian	Fee	ow	APD
-30D-35 BTR	30	030S	050W	4301353061	Fee	Fee	OW	APD
C TRIBAL 3-23D-46	23	040S	060W	4301353066	Indian	State	ow	APD
C Tribal 14-23D-46	23	040S	060W	4301353067	Indian	State	OW	APD
.C Tribal 13-25D-46	25	040S	060W	4301353068	Indian	Indian	OW	APD
C Tribal 14-26D-46	26	040S	060W	4301353069	Indian	State	OW	APD
C Tribal 5-26D-46	26	040S	060W	4301353070	Indian	State	OW	APD
C Tribal 11-35D-45	35	040S	050W	4301353071	Indian	State	OW	APD
C Tribal 7-35D-45	35	040S	050W	4301353072	Indian	State	OW	APD
C Tribal 3-35D-45	35	040S	050W	4301353075	Indian	State	OW	APD
C Tribal 14-36D-45	36	040S	050W	4301353076	Indian	State	OW	APD
C Tribal 13-36D-45	36	040S	050W	4301353077	Indian	State	OW	APD
C Tribal 10-36D-45	36	040S	050W	4301353078	Indian	State	OW	APD
.C Tribal 8-36D-45	36	040S	050W	4301353079	Indian	State	OW	APD
.C Tribal 6-36D-45	36	040S	050W	4301353080	Indian	State	OW	APD
.C Tribal 1-34D-46	34	040S	060W	4301353081	Indian	State	OW	APD
.C Tribal 9-27D-46	27	040S	060W	4301353082	Indian	State	OW	APD
.C Tribal 13-35D-45	35	040S	050W	4301353083	Indian	State	OW	APD
C Tribal 8-35D-45	35	040S	050W	4301353084	Indian	State	OW	APD
.C Tribal 15-35D-45	35	040S	050W	4301353085	Indian	State	OW	APD
C Tribal 12-25D-45	25	040S	050W	4301353122	Indian	Indian	OW	APD
C Tribal 14-25D-45	25	040S	050W	4301353123	Indian	Indian	OW	APD
C Tribal 10-25D-45	25	040S	050W	4301353124	Indian	Indian	ow	APD
C Tribal 11-26-45	26	040S	050W	4301353125	Indian	Indian	OW	APD
C Tribal 13-26D-45	26	040S	050W	4301353126	Indian	Indian	OW	APD
C Tribal 7-31D-46	31	040S	060W	4301353127	Indian	Indian	OW	APD
.C Tribal 7-19D-45	19	040S	050W	4301353128	Indian	Indian	OW	APD
.C Tribal 5-19D-45	19	040S	050W	4301353130	Indian	Indian	OW	APD
.C Tribal 7-25D-46	25	040S	060W	4301353132	Indian	Indian	OW	APD

	15.	1							
_C Tribal 7-24D-46	24	0408	060W	4301353134		Indian	Indian	OW	APD
.C Tribal 14-31D-46	31	040S	060W	4301353135		Indian	Indian	OW	APD
C Tribal 14-30D-46	30	040S	060W	4301353136		Indian	Indian	OW	APD
13-4-35 BTR SWD	4	030S	050W	4301353293		Fee	Fee	OW	APD
.C FEE 14-26D-47	26	040S	070W	4301353294	1	Fee	Indian	OW	APD
C Fee 5-25D-47	25	040S	070W	4301353295		Fee	Indian	OW	APD
7-35-46 LC SWD	35	040S	060W	4301353296		Fee	Fee	OW	APD
.C Fee 1H-33-47	32	040S	070 <b>W</b>	4301353309		Fee	Indian	ow	APD
_C FEE 14-2D-58	2	050S	W080	4301353312		Fee	Indian	OW	APD
C FEE 13H-21-47	21	040S	070W	4301353313		Fee	Indian	OW	APD
C Fee 16-21D-47	21	040S	070W	4301353326		Fee	Indian	OW	APD
6-7D-46 BTR	7	040S	060W	4301353328		Fee	Indian	OW	APD
C Fee 15-26D-47	26	040S	070W	4301353331		Fee	Indian	OW	APD
.C Fee 4-24D-47	23	040S	070W	4301353332		Fee	Indian	OW	APD
.C Fee 5-34D-47	34	040S	070W	4301353333		Fee	Indian	OW	APD
.C Fee 5-35D-47	35	040S	070W	4301353334	:	Fee	Indian	OW	APD
3-34D-47 LC Fee	34	040S	070W	4301353337		Fee	Indian	OW	APD
4-35D-35 BTR	35	030S	050W	4301352120		Fee	Fee	OW	DRL
-17D-46 BTR	17	040S	060W	4301351078		Indian	Indian	OW	OPS
-34D-35 BTR	34	030S	050W	4301351187		Indian	Fee	OW	OPS
5-10D-45 BTR	10	040S	050W	4301351221		Indian	Indian	OW	OPS
-3D-45 BTR	3	040S	050W	4301351810		Indian	Indian	OW	OPS
-34D-35 BTR	34	030S	050W	4301352117		Fee	Fee	OW	OPS
-35D-35 BTR	35	030S	050W	4301352118		Fee	Fee	OW	OPS
-2D-46 BTR	2	040S	060W	4301353086		Indian	Fee	OW	OPS
'-21-46 DLB	21	040S	060W	4301333567	16526	Indian	Indian	OW	P
.C TRIBAL 1H-27-46	27	040S	060W	4301333568	18175	Indian	Fee	GW	P
'-29-46 DLB	29	040S	060W	4301333584	17603	Indian	Fee	GW	P
C TRIBAL 12H-28-46	28	0408	060W	4301333631	18132	Indian	Indian	GW	P
.C TRIBAL 13H-21-46	21	0408	060W	4301333632	18107	Indian	Indian	GW	 P
2-36-36 BTR	36	030S	060W	4301333638	16336	Indian	Fee	GW	P
i-5-46 BTR	5	0408	060W	4301333639	16542	Indian	Fee	OW	P
5-23-36 BTR	23	0308	060W	4301333642	16675	Indian	Fee	GW	P
4-29-36 BTR	29	0308	060W	4301333643	16725	Indian	Fee	ow	P
4-30-36 BTR	30	0308	060W	4301333644	16701	Indian	Fee	GW	<u>'</u>
'-20-46 DLB	20	040S	060W	4301333657	16584	Indian	Indian	OW	'P
.C TRIBAL 5-21D-46	21	0408	060W	4301333658	18887	Indian	Indian	OW	P
-20-46 DLB	20	0408	060W	4301333659	18750	Indian	Indian	GW	P
.C TRIBAL 13H-20-46	20	0408	060W	4301333678	17979	Indian	Indian	GW	P
14-7-46 BTR	7	0408	060W	4301333806	16890	Indian	Indian	GW	P
	1.	0.00	100011	TOO   OOOOOO	10000	HIMIAII	HIMIAH	UVV	1 1-1

1-5-45 BTR	5	040S	050W	4301333868	16931	Indian	Indian	OW	Р
5-16-36 BTR	16	030S	060W	4301333970	17195	Indian	Fee	ow	P
5-29-36 BTR	29	0308	060W	4301333972	17557	Indian	Fee	OW	P
4-30-36 BTR	30	030S	060W	4301333973	17249	Indian	Fee	OW	P
7-19-46 DLB	19	040S	060W	4301334004	19018	Indian	Indian	OW	Р
5-25-36 BTR	25	0308	060W	4301334021	17126	Fee	Fee	OW	Р
5-4-45 BTR	4	0408	050W	4301334089	17507	Indian	Indian	oW	Р
13-2-46 BTR	2	040S	060W	4301334090	18618	Indian	Indian	ow	Р
2-3-45 BTR	3	040S	050W	4301334099	17932	Indian	Indian	OW	Р
7-6-45 BTR	6	040S	050W	4301334100	17653	Indian	Indian	OW	Р
1-9-45 BTR	9	0408	050W	4301334101	17910	Indian	Indian	OW	Р
8-10-45 BTR	10	040S	050W	4301334102	17530	Indian	Indian	ow	Р
7-17-45 BTR	17	040S	050W	4301334104	17933	Indian	Indian	OW	Р
16-7-45 BTR	7	040S	050W	4301334111	17665	Indian	Indian	OW	Р
15-18-45 BTR	18	040S	050W	4301334112	17832	Indian	Indian	ow	Р
6-12-46 BTR	12	040S	060W	4301334114	17964	Indian	Indian	ow	P
5-13-46 BTR	13	040S	060W	4301334115	17833	Indian	Indian	OW	Р
16-26-36 BTR	26	030S	060W	4301334132	18028	Indian	Fee	ow	P
1-23-36 BTR	23	030S	060W	4301334136	17722	Indian	Fee	OW	Р
15-10-36 BTR	10	030S	060W	4301334277	17419	Indian	Fee	ow	Р
14-5-46 BTR	5	040S	060W	4301350307	17624	Fee	Fee	ow	Р
14X-22-46 DLB	22	040S	060W	4301350351	17604	Indian	Indian	ow	Р
16-13-36 BTR	13	030S	060W	4301350372	17853	Indian	Fee	ow	Р
5-33-46 DLB	33	040S	060W	4301350397	17765	Indian	Fee	OW	Р
5-34-46 DLB	34	040S	060W	4301350415	17801	Indian	State	GW	Р
LC FEE 12H-32-46	32	040S	060W	4301350431	18003	Fee	Fee	OW	Р
1-13D-47 BTR	13	040S	070W	4301350445	18205	Indian	Fee	OW	Р
16-8D-45 BTR	8	040S	050W	4301350466	18799	Indian	Indian	OW	Р
7-13D-46 BTR	13	040S	060W	4301350470	18076	Indian	Indian	OW	Р
14-8D-45 BTR	8	040S	050W	4301350567	18207	Indian	Indian	OW	Р
14-5D-45 BTR	5	040S	050W	4301350568	18108	Indian	Indian	OW	Р
16-31D-36 BTR	31	030S	060W	4301350573	18004	Indian	Fee	OW	P
5-7D-46 BTR	7	040S	060W	4301350574	18176	Indian	Indian	OW	Р
LC TRIBAL 13H-33-46	34	040S	060W	4301350575	18223	Indian	State	OW	Р
5-8-45 BTR	8	040S	050W	4301350607	18279	Indian	Indian	OW	Р
16-6D-45 BTR	6	040S	050W	4301350610	18177	Indian	Indian	OW	P
5-18D-45 BTR	18	040S	050W	4301350611	18300	Indian	Indian	OW	Р
7-26-37 BTR	26	030\$	070W	4301350641	18131	Indian	Fee	OW	Р
3-11D-36 BTR	11	030S	060W	4301350642	18299	Indian	Fee	OW	Р
16-1D-46 BTR	1	040S	060W	4301350675	18525	Indian	Indian	ow	Р
14-3-45 BTR	3	040S	050W	4301350676	18363	Indian	Indian	ow	Р

4-17D-45 BTR	17	040S	050W	4301350687	18517	Indian	Indian	OW	Р
5-6D-45 BTR	6	040S	050W	4301350688	18726	Indian	Indian	OW	P
7-7D-45 BTR	7	040S	050W	4301350689	18380	Indian	Indian	OW	P
14-10D-45 BTR	10	040S	050W	4301350754	18447	Indian	Indian	OW	P
14-9D-45 BTR	9	040S	050W	4301350755	18379	Indian	Indian	OW	P
13-16D-36 BTR	16	030S	060W	4301350757	18206	Indian	State	OW	Р
5-9D-36 BTR	9	030S	060W	4301350843	18381	Indian	Fee	OW	P
16-5D-46 BTR	5	040S	060W	4301350844	18280	Fee	Fee	OW	Р
5-27D-37 BTR	27	030S	070W	4301350847	18526	Indian	Fee	OW	Р
7-4D-45 BTR	4	040S	050W	4301350884	18562	Indian	Indian	OW	Р
2-16D-45 BTR	16	040S	050W	4301350899	18619	Indian	Indian	OW	Р
16-10D-45 BTR	10	040S	050W	4301350902	18725	Indian	Indian	OW	P
5-2D-36 BTR	2	030S	060W	4301350913	18886	Indian	Fee	ow	Р
13H-27-36 BTR	27	030S	060W	4301350918	18445	Indian	State	ow	Р
8-16D-46 BTR	16	040S	060W	4301350953	19027	Indian	Indian	OW	Р
16-16D-46 BTR	16	040S	060W	4301350956	19028	Indian	Indian	OW	Р
16-9D-45 BTR	9	040S	050W	4301350962	18662	Indian	Indian	OW	Р
14-31D-36 BTR	31	030S	060W	4301350973	18524	Indian	Fee	OW	Р
5-10D-36 BTR	10	030S	060W	4301350978	18989	Indian	Fee	OW	Р
1-32D-36 BTR	32	030S	060W	4301350979	18648	Indian	Fee	OW	Р
16-12D-36 BTR	12	030S	060W	4301350980	18748	Indian	Fee	ow	Р
2-18D-45 BTR	18	040S	050W	4301350991	18776	Indian	Indian	OW	Р
3-1-46 BTR	1	040S	060W	4301351017	18777	Indian	Fee	ow	Р
10-5-45 BTR	5	040S	050W	4301351062	18724	Indian	Indian	OW	Р
12-4D-45 BTR	4	040S	050W	4301351063	18813	Indian	Indian	ow	Р
1-10D-45 BTR	10	040S	050W	4301351064	18966	Indian	Indian	ow	Р
16-2D-46 BTR	2	040S	060W	4301351079	18830	Indian	Indian	OW	Р
9H-4-45 BTR	4	040S	050W	4301351092	18814	Indian	Indian	OW	Р
12-17-45 BTR	17	040S	050W	4301351097	18984	Indian	Indian	OW	Р
5-9D-46 BTR	9	040S	060W	4301351109	19313	Indian	Fee	OW	Р
14-9D-36 BTR	9	030S	060W	4301351144	19004	Indian	Fee	OW	Р
5-31D-36 BTR	31	030S	060W	4301351146	18691	Indian	Fee	OW	Р
4-9D-45 BTR	9	040S	050W	4301351157	18883	Indian	Indian	OW	Р
8-12D-46 BTR	12	040S	060W	4301351159	18911	Indian	Indian	OW	Р
LC TRIBAL 16-23D-47	23	040S	070W	4301351180	18617	Indian	Indian	OW	Р
14-7D-45 BTR	7	040S	050W	4301351222	18949	Indian	Indian	OW	Р
5-16D-45 BTR	16	040S	050W	4301351223	18987	Indian	Indian	OW	Р
4-5D-45 BTR	5	040S	050W	4301351242	18882	Indian	Indian	OW	P
LC TRIBAL 16H-19-45	19	0408	050W	4301351278	18627	Indian	Indian	OW	Р
LC TRIBAL 13-19D-45	19	040S	050W	4301351280	18628	Indian	Indian	OW	Р
LC TRIBAL 5-30D-45	30	040S	050W	4301351281	19448	Indian	Indian	OW	Р

LC TRIBAL 15-24D-46	24	040S	060W	4301351283	18626	Indian	Indian	OW	Р
LC TRIBAL 13H-24-46	19	040S	050W	4301351289	18629	Indian	Indian	ow	Р
7-16-47 BTR	16	040S	070W	4301351296	18950	Indian	Fee	ow	P
14-18D-45 BTR	18	040S	050W	4301351313	19005	Indian	Indian	ow	Р
LC TRIBAL 16-30D-46	30	040S	060W	4301351320	19006	Indian	Indian	ow	Р
LC TRIBAL 5-20D-45	20	040S	050W	4301351331	19449	Indian	Indian	ow	Р
11-8D-46 BTR	8	040S	060W	4301351336	19314	Indian	Indian	OW	Р
5-7D-45 BTR	7	040S	050W	4301351350	18951	Indian	Indian	ow	Р
7-5-35 BTR	5	030S	050W	4301351599	19078	Indian	Fee	OW	P
13-5D-35 BTR	5	030S	050W	4301351600	18996	Indian	Fee	ow	Р
11-5D-35 BTR	5	030S	050W	4301351601	19061	Fee	Fee	OW	Р
15-5D-35 BTR	5	030S	050W	4301351602	19062	Fee	Fee	OW	Р
9-5D-35 BTR	5	030S	050W	4301351609	19029	Indian	Fee	ow	Р
3-5D-35 BTR	5	030S	050W	4301351638	19079	Indian	Fee	OW	Р
7-8-46 BTR	8	040S	060W	4301351702	19315	Indian	Indian	ow	Р
7-30-46 DLB	30	040S	060W	4301351703	18997	Fee	Indian	OW	Р
3-13D-46 BTR	13	040S	060W	4301351718	18881	Indian	Indian	ow	Р
2-13D-46 BTR	13	040S	060W	4301351719	18885	Indian	Indian	OW	Р
12-12D-46 BTR	12	040S	060W	4301351720	18867	Indian	Indian	OW	P
10-12D-46 BTR	12	040S	060W	4301351721	18856	Indian	Indian	ow	Р
11-11D-47 BTR	11	040S	070W	4301352091	19633	Fee	Fee	ow	P
7-12D-47 BTR	12	040S	070W	4301352094	19600	Indian	Fee	ow	Р
5-12D-47 BTR	12	040S	070W	4301352095	19634	Indian	Fee	ow	Р
14-33D-35 BTR	33	030S	050W	4301352162	19450	Indian	Fee	ow	Р
16-33D-35 BTR	33	030S	050W	4301352163	19451	Indian	Fee	ow	Р
14-22-46 DLB	22	040S	060W	4301333660	17604	Indian	Indian	D	PA
13H-31-36 BTR	31	0308	060W	4301350465	18485	Indian	Fee	OW	PA
16X-23D-36 BTR	23	030S	060W	4301350623	18007	Indian	State	OW	PA
8-6-45 BTR	6	040S	050W	4301350900	18561	Indian	Indian	OW	PA
13-13-36 BTR	13	030S	060W	4301350919	18364	Indian	Fee	OW	PA
7-28-46 DLB	28	040S	060W	4301333569	16460	Indian	Indian	OW	S
5-21-36 BTR	21	030S	060W	4301333641	16674	Indian	Fee	GW	S
13-26-36 BTR	26	030S	060W	4301333980	17569	Indian	Fee	OW	S
14-1-46 BTR	1	040S	060W	4301334113	18516	Indian	Indian	OW	S
16-21-36 BTR	21	030S	060W	4301334130	17721	Indian	Fee	OW	S
14-21-36 BTR	21	030S	060W	4301334131	18006	Indian	Fee	OW	S
7-16-36 BTR	16	030\$	060W	4301334133	17834	Indian	Fee	OW	s
1-30-36 BTR	30	0308	060W	4301334134	17905	Indian	Fee	OW	S
16-30-36 BTR	30	0308	060W	4301334135	18005	Indian	Fee	OW	S
3-23-36 BTR	23	0308	060W	4301334137	17860	Indian	Fee	OW	S
16-16-36 BTR	16	0308	060W	4301334138	17666	Indian	Fee	OW	S

4-26-36 BTR	26	030S	060W	4301334139	17620	Fee	Fee	OW	S
9-11-36 BTR	11	030S	060W	4301334276	17451	Indian	Fee	OW	S
3-36-36 BTR	36	0308	060W	4301350398	17955	Indian	Fee	OW	S
7-10-36 BTR	10	030S	060W	4301350437	18052	Indian	Fee	OW	S
16-12D-46 BTR	12	040S	060W	4301350467	18051	Indian	Indian	OW	S
13H-13-46 BTR	13	040\$	060W	4301350468	18208	Indian	Indian	OW	S
13-12-46 BTR	12	040S	060W	4301350469	18233	Indian	Indian	OW	S
14-8D-36 BTR	8	030S	060W	4301350612	18163	Indian	Fee	OW	S
14-7D-36 BTR	7	030S	060W	4301350613	18330	Indian	Fee	OW	S
16-9-36 BTR	9	0308	060W	4301350645	18078	Indian	Fee	OW	S
7-27-37 BTR	27	030S	070W	4301350647	18090	Indian	Fee	OW	S
16-12D-37 BTR	12	030S	070W	4301350785	18446	Indian	Fee	OW	S
14-21D-37 BTR	21	030S	070W	4301350859	18548	Indian	Fee	OW	S
10-18D-36 BTR	18	030S	060W	4301350915	18884	Indian	Fee	OW	S
5-27D <b>-</b> 36	27	030S	060W	4301350917	18482	Indian	State	OW	S
10-36D-36 BTR	36	030S	060W	4301351005	18523	Indian	Fee	OW	S
14-6D-45 BTR	6	040S	050W	4301351158	18967	Indian	Indian	OW	S
5H-1-46 BTR UTELAND BUTTE	6	040S	050W	4301351215	18728	Indian	Indian	OW	S
5H-1-46 BTR WASATCH	6	040S	050W	4301351216	18727	Indian	Indian	OW	S
1-25D-36 BTR	25	030S	060W	4301351294	18798	Indian	Fee	OW	S
5-5D-35 BTR	5	030S	050W	4301351605	19055	Indian	Fee	OW	S
16-23-36 BTR	23	030S	060W	4301333971	17182	Indian	Fee	OW	TA
LC TRIBAL 14-23D-47	23	040S	070W	4301334022	18616	Indian	Indian	OW	TA
5-32D-36 BTR	32	030S	060W	4301350756	18328	Indian	Fee	OW	TA



October 20, 2016

RECEIVED

OCT 21 2016

Re: Bill Barrett Corporation Transfer to New Operator

DIV. OF OIL, GAS & MINING

Dear Ms. Medina:

Attached please find the change of operation Form 9, Form 5's and Request to Transfer APD formchanging the operator from Bill Barrett Corporation to RIG II, LLC, effective 11/1/2016. Badlands Energy – Utah, LLC will be a sub-operator.

#### **New Operator Contact information:**

RIG II, LLC 1582 West 2600 South Woods Cross, Utah 84087-0298 Telephone:(801) 683-4245 Fax:(801) 298-9889

Upon reviewing the attached, please contact myself with any questions at 303-312-8115.

Sincerely,

**Bill Barrett Corporation** 

Brady Riley Permit Analyst

#### STATE OF UTAH FORM 9 **DEPARTMENT OF NATURAL RESOURCES** 5. LEASE DESIGNATION AND SERIAL NUMBER: DIVISION OF OIL, GAS AND MINING (see attached well list) 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: SUNDRY NOTICES AND REPORTS ON WELLS N/A 7, UNIT or CA AGREEMENT NAME: Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. 1. TYPE OF WELL 8. WELL NAME and NUMBER OIL WELL 🔽 GAS WELL (see attached well list) 2. NAME OF OPERATOR: 9. API NUMBER RIG II, LLC 3. ADDRESS OF OPERATOR PHONE NUMBER: 10. FIELD AND POOL, OR WILDCAT: 1582 West 2600 South (801) 683-4245 STATE UT ZIP 84087 Wood Cross 4. LOCATION OF WELL FOOTAGES AT SURFACE: (see attached well list) COUNTY: QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 11. TYPE OF SUBMISSION TYPE OF ACTION ACIDIZE REPERFORATE CURRENT FORMATION NOTICE OF INTENT (Submit in Duplicate) ALTER CASING FRACTURE TREAT SIDETRACK TO REPAIR WELL Approximate date work will start; CASING REPAIR **NEW CONSTRUCTION** TEMPORARILY ABANDON 11/1/2016 CHANGE TO PREVIOUS PLANS OPERATOR CHANGE TUBING REPAIR CHANGE TUBING PLUG AND ABANDON VENT OR FLARE SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK WATER DISPOSÁL (Submit Original Form Only) CHANGE WELL STATUS PRODUCTION (START/RESUME) WATER SHUT-OFF Date of work completion: COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE OTHER: CONVERT WELL TYPE **RECOMPLETE - DIFFERENT FORMATION** 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. RIG II, LLC IS SUBMITTING THIS SUNDRY AS NOTIFICATION THAT THE WELLS LISTED ON THE ATTACHED LIST HAVE BEEN SOLD TO-Rig II, LLC BY BILL BILL BARRETT CORPORATION EFFECTIVE 11/1/2016. PLEASE REFER ALL FUTURE CORRESPONDENCE TO THE ADDRESS BELOW. RIG II, LLC 1582 West 2600 South Woods Cross, Utah 84087-0298 801-683-4245 (STATE/FEE BOND # 9219529/ BLM BOND # UTB000712/ BIA BOND # LPM9224670) BILL BARRETT CORPORATION NOILS RIG II, LLC MAME (PLEASE PRINT) \_ NAME (PLEASE PRINT) SIGNATURE SIGNATURE EH&S, Government and Regulatory Affairs Jesse McSwain Manager NAME (PLEASE PRINT) 1012016

**APPROVED** 

NOV 0 7 2016

(This space for State use only)

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

### **Request to Transfer Application or Permit to Drill**

	(This form should ac	ccompany a Sundr	y Notice, Form 9, reque	esting APD transfer)		
Well	name:	(See attached li	st)			
API ı	number:					
Loca	ation:	Qtr-Qtr:	Section:	Township: Range:		
Com	pany that filed original application:	Bill Barrett Corp	oration			
Date	original permit was issued:					
Com	pany that permit was issued to:	Bill Barrett Cor	poration			
Check one		Des	ired Action:			
	Transfer pending (unapproved) App					
	The undersigned as owner with legal r submitted in the pending Application for owner of the application accepts and a	or Permit to Dril	l, remains valid ar	nd does not require revision. The	new	
✓	Transfer approved Application for F	ermit to Drill t	o new operator			
	The undersigned as owner with legal r information as submitted in the previous revision.				re	
Folio	owing is a checklist of some items rel	ated to the ap	plication, which s	should be verified.	Yes	No
If loc	ated on private land, has the ownership	changed?			<b>√</b>	
	if so, has the surface agreement been	updated?				✓
	e any wells been drilled in the vicinity of irements for this location?	the proposed w	rell which would af	fect the spacing or siting		✓
	e there been any unit or other agreemen osed well?	ts put in place t	hat could affect th	e permitting or operation of this		✓
	there been any changes to the access osed location?	route including	ownership or righ	t-of-way, which could affect the		✓
Has t	the approved source of water for drilling	changed?				✓
	e there been any physical changes to the s from what was discussed at the onsite		on or access route	which will require a change in		✓
Is bo	nding still in place, which covers this pro	posed well? B	ond No. 9219529-UDOGM/U	JTB000712-BLM / LPM9224670-BIA	1	
shou nece	desired or necessary changes to either a ld be filed on a Sundry Notice, Form 9, o ssary supporting information as required	or amended Ap	plication for Permi			red,
	e (please print) Jesse McSwain		Title Manager	2110		
_	esenting (company name) RIG II, LLC		Date 10 0	<u> 114 </u>		
rtepi	cooming (company name)			· · · · · · · · · · · · · · · · · · ·		

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS AND MINING

TRANSFER OF AUTHORITY TO INJECT								
Well Name and Number 6-32-36 BTR SWD		4			API Number 4301350921			
Location of Well				DUQUENOE	Field or Unit Name CEDAR RIM			
Footage: 1628 FNL 1553 FWL  QQ, Section, Township, Range: SENW	32	3S	6W	County : DUCHENSE  State : UTAH	Lease Designation and Number 2OG0005608			

EFFECTIVE DATE OF TRANSFER: 11/1/2016

CURRENT OP	PERATOR	
Company:	BILL BARRETT CORPORATION	Name: Duane Zavadil
Address:	1099 18th Street Ste 2300	Signature: 2nCd
	city DENVER state CO zip 80202	Senior Vice President - Title: EH&S, Government and Regulatory Affairs
Phone:	(303) 293-9100	Date: 10 20 16
Comments	· · · · · · · · · · · · · · · · · · ·	

Address: 1582 West 2600 South Signature: Signature: Manager	Company: RIG II, LLC Name: Jesse McSwain	
10/2 . 111	1593 West 2000 Courts	R:
(004) 002 4045	city Wood Cross state UT zip 84087 Title: Manager	
Phone: (801) 683-4245 Date: 10 LC 10	Phone: (801) 683-4245 Date: 10 20 10	

(This space for State use only)

Transfer approved by:

Approval Date: ///3//L

Comments:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

	TRANSFER OF AL	JTHORITY TO INJECT	Γ
Well Name and 16-6D-46 BT			API Number 4301350781
ocation of Well		:	Field or Unit Name
Footage: 02	200 FSL 0099 FEL	County : DUCHESNE	ALTAMONT Lease Designation and Number
QQ, Section,	Township, Range: SESE 6 4S 6W	State: UTAH	20G0005608
	11/1/2016		
EFFECTIVE L	DATE OF TRANSFER: 11/1/2016		
CURRENT OP	PERATOR		
Company:	BILL BARRETT CORPORATION	Name: Duane	e Zavadil
Address:	1099 18th Street Ste 2300	Signature:	m Zinal
	city DENVER state CO zip 80202	SeniorV	ice President - Government and Regulatory Affairs
Phone:	(303) 293-9100	Date:	20/16
Comments:			
oommonto.	•		
NEW OPERAT			
VEW OF LINA	iok		
Company:	RIG II, LLC	Name: Jesse	McSwain <sup>(</sup>
Address:	1582 West 2600 South	Signature:	Leve MG:
, , , , , , , , , , , , , , , , , , , ,	city Wood Cross state UT zip 84087	Title: Mana	
Phone:	(801) 683-4245	Date:	120/16
Comments:	:		
This space for S	state use only)	· ·	1
Transfer ap	oproved by:	Approval Date:	11/3/16
	Title: VIC		•

Comments:

#### STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

	TRANSFER OF AL	JTHORITY TO INJEC	Γ
ell Name and SWD 9-36 B	TR		API Number 4301350646
cation of Well			Field or Unit Name CEDAR RIM
Footage: 0539 FSL 0704 FEL		County : DUCHESNE	Lease Designation and Number
QQ, Section,	Township, Range: SESE 9 3S 6W	State: UTAH	2OG0005608
FFECTIVE	DATE OF TRANSFER: 11/1/2016		
URRENT OP	PERATOR		
	DV L DADDETT CODDODATION	_	
Company:	BILL BARRETT CORPORATION	Name: Duane	e Zavadil
Address:	1099 18th Street Ste 2300	Signature: Senior V	rice President -
	city DENVER state CO zip 80202	Title: EH&S, G	Government and Regulatory Affairs
Phone:	(303) 293-9100	Date: <u>\</u>	2014
Comments:			
EW OPERAT	FOR		
Company:	RIG II, LLC	Name: Jesse	McSwain
Address:	1582 West 2600 South	Signature:	ENE MEG-
	city Wood Cross state UT zip 84087	Title: Mana	ger
Phone:	(801) 683-4245	Date:	20/16
Comments:			
is space for S	tate use only)		
Transfer ap	proved by:	Approval Date:	
	Title:		
	This well was own	rived by USE.	PH.
Comr	ments:  This well was approved with	Il be required.	
	EPH approved to.		